

California Regional Water Quality Control Board



Colorado River Basin Region

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ORDER NO. R7-2005-0084 NPDES NO. CA0104400

The following Discharger is authorized to discharge in accordance with the conditions set forth in this Order:

Discharger	City of Imperial	
Name of Facility	City of Imperial Water Pollution Control Plant	
	701 East 14 th Street	
Facility Address	Imperial, CA 92251	
	Imperial County	

The Discharger is authorized to discharge from the following discharge points as set forth below:

Discharge	Effluent	Discharge Point	Discharge Point	Receiving Water
Point	Description	Latitude	Longitude	
001	Treated Wastewater	32 °, 51', 17" N	115°, 33', 42" W	Dolson Drain

This Order was adopted by the Regional Water Board on:	June 29, 2005
This Order shall become effective on:	June 29, 2005
This Order shall expire on:	June 29, 2010
The U.S. Environmental Protection Agency (U.S. EPA) and the Regi as a major discharge.	onal Water Board have classified this discharge
The Discharger shall file a Report of Waste Discharge in accordance not later than 180 days in advance of the Order expiration date as app	with Title 23, California Code of Regulations,

IT IS HEREBY ORDERED, that Order No. 00-040 is rescinded upon the effective date of this Order except for enforcement purposes, and, in order to meet the provisions contained in Division 7 of the California Water Code (CWC) and regulations adopted thereunder, and the provisions of the federal Clean Water Act (CWA), and regulations and guidelines adopted thereunder, the Discharger shall comply with the requirements in this Order.

I, Robert E. Perdue, Executive Officer, do hereby certify the following is a full, true, and correct copy of an Order adopted by the California Regional Water Control Board, Colorado River Basin Region, on June 29, 2005.

Robert E. Perdue, Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD REGION 7, COLORADO RIVER BASIN REGION

ORDER NO. R7-2005-0084 NPDES NO. CA0104400

TABLE OF CONTENTS

I.	Facility Information	3
II.	Findings	
III.	Discharge Prohibitions	8
IV.	Effluent Limitations and Discharge Specifications	9
	A. Effluent Limitations – Discharge Point D-001	9
	B. Land Discharge Specifications	10
	C. Reclamation Specifications	10
V.	Receiving Water Limitations	11
	A. Surface Water Limitations	11
	B. Groundwater Limitations	12
VI.	Provisions	
	A. Standard Provisions	12
	B. Monitoring and Reporting Program Requirements	14
	C. Special Provisions	14
	1. Re-opener Provisions	14
	2. Special Studies, Technical Reports and Additional Monitoring Requirements	15
	3. Best Management Practices and Pollution Prevention	17
	4. Compliance Schedules	17
	5. Construction, Operation and Maintenance Specifications	18
	6. Special Provisions for Municipal Facilities (POTWs Only)	18
	7. Other Special Provisions	20
VII.	Compliance Determination	20
Attac	chment A – Definitions	A-1
Attac	chment B – Site Map	R-1
Attac	chment C – Flow Schematic	
Attac	chment D – Federal Standard Provisions	D-1
Attac	chment E – Monitoring and Reporting Program (MRP)	E-1
Attac	chment F – Fact Sheet	F 1

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT ORDER NO. R7-2005-0084 NPDES NO. CA0104400

I. FACILITY INFORMATION

The following Discharger is authorized to discharge in accordance with the conditions set forth in this Order:

Discharger	City of Imperial
Name of Facility	City of Imperial Water Pollution Control Plant
	701 East 14th Street
Facility Address	Imperial, CA 92251
	Imperial County
Facility Contact, Title, and Phone	Jackie Loper, Director of Community Development, (760) 355-4371
Mailing Address	420 So. Imperial Avenue, Imperial, CA 92251
Type of Facility	Publicly Owned Treatment Works (POTW)
Facility Design Flow	1.4 Million Gallons per Day (mgd)

II. FINDINGS

The California Regional Water Quality Control Board, Colorado River Basin Region (hereinafter Regional Water Board), finds:

- A. **Background.** The City of Imperial submitted a Report of Waste Discharge, dated December 10, 2004, and applied for a National Pollutant Discharge Elimination System (NPDES) permit renewal to discharge up to 1.4 million gallons per day (mgd) of treated wastewater from the wastewater treatment plant. The Regional Board in a letter dated January 18, 2005 requested supplemental information.
- B. Facility Description. The Discharger owns and operates the wastewater treatment plant. The total design capacity of the wastewater treatment plant is 1.4 mgd. The current wastewater treatment plant consists of an influent pumping station, grit chamber, two parallel oxidation ditches, two secondary clarifiers, an ultraviolet disinfection system, and sludge drying beds. Wastewater is discharged from Discharge 001 (see table on cover) to the Dolson Drain, a water of the United States, via Lilac Drain, Rose Drain, Alamo River, and then to the Salton Sea. Attachment B is a topographic map of the area around the facility. Attachment C is a wastewater flow schematic of the facility. Attachment B and C are hereby incorporated into this Order.
- C. Legal Authorities. This Order is issued pursuant to section 402 of the Federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (CWC). It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of the CWC for discharges that are not subject to regulation under CWA section 402.
- D. Background and Rationale for Requirements. The Regional Water Board developed the requirements in this Order based on information submitted as part of the application, through monitoring and reporting programs, and through special studies. Attachments A through G, which contain background information and rationale for Order requirements, are hereby incorporated into this Order and, thus, constitute part of the Findings for this Order.
- E. California Environmental Quality Act (CEQA). This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.
- F. Technology-based Effluent Limitations. The Code of Federal Regulations (CFR) at 40 CFR § 122.44(a) requires that permits include applicable technology-based limitations and standards. This Order includes technology-based effluent limitations based on Secondary Treatment Standards at 40 CFR Part 133. The Regional Board has considered the factors listed in CWC § 13241 in establishing these requirements. A detailed discussion of the technology-based effluent limitations development is included in the Fact Sheet (Attachment F).

G. Water Quality-based Effluent Limitations. Section 122.44(d) of 40 CFR requires that permits include water quality-based effluent limitations (WQBELs) to attain and maintain applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a), proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information, or an indicator parameter.

USEPA approved the State's 2002 303(d) list of impaired water bodies on July 25, 2003. According to the 2002 303(d) list, the Imperial Valley Drains are impaired for sediment/silt, pesticides, and selenium. A sedimentation/siltation total daily maximum load (TMDL) for the Alamo River to which Dolson Drain flows was approved by the USEPA in June 2002. This Order implements the waste load allocations required by the sedimentation/siltation TMDL.

- H. No More Stringent than Federal Law. This Order contains restrictions on individual pollutants that are no more stringent than required by the federal Clean Water Act. Individual pollutant restrictions consist of technology-based restrictions and water quality-based effluent limitations. The technology-based effluent limitations are discussed in detail in the Fact Sheet (Attachment F). Restrictions on technology-based effluent limits are specified in federal regulations as stated in Findings F. Technology-based Effluent Limitations. and detailed in the Fact Sheet, and the permit's technology-based pollutant restrictions are no more stringent than required by the Clean Water Act. Water quality-based effluent limitations have been scientifically derived to implement water quality objectives that protect beneficial uses. Both the beneficial uses and the water quality objectives have been approved pursuant to federal law and are the applicable federal water quality standards. To the extent that toxic pollutant water quality-based effluent limitations were derived from the California Toxics Rule, the California Toxics Rule is the applicable standard pursuant to 40 C.F.R. 131.38. The scientific procedures for calculating the individual water quality-based effluent limitations are based on the CTR-SIP, which was approved by USEPA on May 1, 2001. All beneficial uses and water quality objectives contained in the Basin Plan were approved under state law and submitted to and approved by USEPA prior to May 30, 2000. Any water quality objectives and beneficial uses submitted to USEPA prior to May 30, 2000, but not approved by USEPA before that date, are nonetheless "applicable water quality standards for purposes of the [Clean Water] Act" pursuant to 40 C.F.R. 131.21(c)(1). Collectively, this Order's restrictions on individual pollutants are no more stringent than required to implement the technology-based requirements of the Clean Water Act and the applicable water quality standards for purposes of the Clean Water Act.
- I. Water Quality Control Plans. The Regional Water Board adopted a Water Quality Control Plan for the Colorado River Basin (hereinafter Basin Plan) that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, State Water Resources Control Board (State Water Board) Resolution No. 88-63 requires that, with certain exceptions, the Regional Water Board assign the municipal and domestic supply use to water bodies that do not have beneficial uses listed in the Basin Plan. Beneficial uses applicable to Imperial Valley Drains are as follows:

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Dolson Drain	Existing:
	(Imperial Valley Drains)	Freshwater replenishment (FRESH), Water Contact Recreation (REC I) ¹ , non-contact water recreation (REC-2) ¹ , warm freshwater habitat (WARM); wildlife habitat (WILD), Preservation of Rare, Threatened or Endangered Species (RARE) ³ .

Requirements of this Order specifically implement the applicable Water Quality Control Plans.

- J. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
- K. State Implementation Policy. On March 2, 2000, State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their basin plans, with the exception of the provision on alternate test procedures for individual discharges that have been approved by USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining the need for and calculating WQBELs and requires dischargers to submit data sufficient to do so.
- L. Alaska Rule. On March 30, 2000, U.S. EPA revised its regulation that specifies when new and revised State and Tribal water quality standards (WQS) become effective for Clean Water Act (CWA) purposes (40 CFR 131.21, 65 FR 24641, April 27, 2000). Under U.S. EPA's new regulation (also known as the Alaska rule), new and revised standards submitted to U.S. EPA after May 30, 2000, must be approved before being used for CWA purposes. The final rule also provides that standards already in effect and submitted to U.S. EPA by May 30, 2000, may be used for CWA purposes, whether or not approved by EPA.
- M. Compliance Schedules and Interim Requirements. Section 2.1 of the SIP provides that, based on a Discharger's request and demonstration that it is infeasible for an existing Discharger to achieve immediate compliance with an effluent limitation derived from a CTR criterion, compliance schedules may be allowed in an NPDES permit. Unless an exception has been granted under Section 5.3 of the SIP, a compliance schedule may not exceed 5 years from the date that the permit is issued or reissued, nor may it extend beyond 10 years from the effective date of the SIP (or May 18, 2010) to establish and comply with CTR criterion-based effluent limitations. Where a compliance schedule for a final effluent limitation exceeds 1 year, the Order

² The only REC1 usage that is known to occur is from infrequent fishing activity.

Unauthorized Use.

³ Rare, endangered, or threatened wildlife exists in or utilizes some of these waterway(s). If the RARE beneficial use may be affected by a water quality control decision, responsibility for substantiation of the existence of rare, endangered, or threatened species on a case-by-case basis is upon the California Department of Fish and Game on its own initiative and/or at the request of the Regional Board; and such substantiation must be provided within a reasonable time frame as approved by the Regional Board.

must include interim numeric limitations for that constituent or parameter. Where allowed by the Colorado River Basin Plan, compliance schedules and interim effluent limitations or discharge specifications may also be granted to allow time to implement a new or revised water quality objective. This Order does include compliance schedules and interim effluent limitations and discharge specifications. A detailed discussion of the basis for the compliance schedule(s) and interim effluent limitation(s) and discharge specifications is included in the Fact Sheet (Attachment F).

- N. Antidegradation Policy. Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. As discussed in detail in the Fact Sheet (Attachment F) the permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution 68-16.
- O. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and federal regulations at 40 CFR § 122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require effluent limitations in a reissued permit to be as stringent as those in the previous permit, with some exceptions where limitations may be relaxed. All effluent limitations in this Order are at least as stringent as the effluent limitations in the previous Order.
- P. Monitoring and Reporting. Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program establishes monitoring and reporting requirements to implement federal and State requirements. This Monitoring and Reporting Program is provided in Attachment E.
- Q. Standard and Special Provisions. Standard Provisions, which in accordance with 40 CFR §§122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D. The Regional Water Board has also included in this Order special provisions applicable to the Discharger. A rationale for the special provisions contained in this Order is provided in the attached Fact Sheet (Attachment F).
- R. Notification of Interested Parties. The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Details of notification are provided in the Fact Sheet (Attachment F) of this Order.
- S. Consideration of Public Comment. The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge. Details of the Public Hearing are provided in the Fact Sheet (Attachment F) of this Order.

III.DISCHARGE PROHIBITIONS

- A. Bypass, overflow, discharge or spill of untreated or partially treated waste is prohibited.
- B. The discharge of waste to land not owned or controlled by the Discharger is prohibited.
- C. Discharge of treated wastewater at a location or in a manner different from that described in Finding No. II.B, above, is prohibited.
- D. The bypass or overflow of untreated wastewater or wastes to Dolson Drain is prohibited, except as allowed the Standard Provisions for National Pollutant Discharge Elimination System Permit (hereinafter Standard Provisions), included as Attachment D.
- E. The Discharger shall not accept waste in excess of the design treatment capacity of the disposal system.
- F. The discharge shall not cause degradation of any water supply.
- G The treatment or disposal of wastes from the facility shall not cause pollution or nuisance as defined in Section 13050(I) and 13050(m) of Division 7 of the California Water Code.

IV. EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS A. Effluent Limitations – Discharge Point 001

1. Final Effluent Limitations - Discharge Point 001

During the period beginning June 29, 2005 discharges from the treatment system shall maintain compliance with the following effluent limitations at Discharge Point 001, with compliance measured at Monitoring Location M-001 as described in the attached Monitoring and Reporting Program (Attachment E): તું

				Effluent Limitations	ns	
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Flow	pßm	1.4				
Biochemical Oxygen	mg/L	30	45			-
Demand 5-day @ 20°C	lbs/day	350	526		:	1
Total Cuenanded Colide	mg/L	30	45	1		
rotat Suspended Solids	lbs/day	350	526	-	-	1
Total Dissolved Colids	mg/L		1	4,500		-
Total Dissolved Solids	lbs/day		:	52,542	3	1
hH	standard units		1		0.9	0.6
Calanium ¹	µg/L	4.1		8.2		-
Scientin	lbs/day	0.05	i	0.1	4 d	1
Thalliuml	μg/L	6.3	-	12.6	1	1
Indilituili	lbs/day	0.07	:	0.15		1

Limitations are applicable after June 29, 2009. The interim limitations establish in Section IV.A.2 are applicable from June 29, 2005 through June 29,

- Percent Removal: The average monthly percent removal of BOD 5-day 20°C and total suspended solids shall not be less than 85 percent.
 - The effluent shall not contain heavy metals, chemicals, pesticides, or other constituents in concentrations toxic to aquatic life.
- The annual average concentration of total dissolved solids (TDS) in the discharge of wastewater shall be limited to 4,000 mg/L. ن

- Wastewater effluent discharged to Dolson Drain shall not have a Escherichia coli (E. coli) concentration in excess of a log mean of Most Probable Number (MPN) of 126 MPN per 100 milliliters (based on a minimum of not less than five samples for any calendar month) nor shall any sample exceed 400 MPN per 100 milliliters ပ
- any acute or chronic toxicity in the receiving water, as defined in the Monitoring and Reporting Program (Attachment objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth There shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause E). All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Compliance with this momalies, or bioassays of appropriate duration or other appropriate methods specified by the Regional Board. ö

2. Interim Effluent Limitations

effluent limitations shall apply in lieu of the corresponding final effluent limitations specified for the same parameters maintain compliance with the following limitations at Discharge Point 001, with compliance measured at Monitoring During the period beginning June 29, 2005 and ending on June 29, 2009, the discharge of treated wastewater shall Location M-001 as described in the attached Monitoring and Reporting Program (Attachment E). These interim during the time period indicated in this provision. ૡ૽

	:	Effluent Limitations	imitations
Farameter	Units	Average Monthly Maximum Daily	Maximum Daily
Salanium	T/BH	11	11
Scientini	lbs/day	0.13	0.13
Thellium	T/Bn	16	16
Hamani	lbs/day	0.19	0.19

B. Land Discharge Specifications - Not Applicable

C. Reclamation Specifications - Not Applicable

V. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

- 1. Receiving water limitations are based upon water quality objectives contained in the Basin Plan. As such, they are a required part of this Order. The discharge shall not cause the following in the Dolson Drain:
 - a. Depress the concentration of dissolved oxygen to fall below 5.0 mg/L. When dissolved oxygen in the receiving water is already below 5.0 mg/L, the discharge shall not cause any further depression.
 - b. The presence of oil, grease, floating material (liquids, solids, foam and scum) or suspended material in amounts that create a nuisance or adversely affect beneficial uses.
 - c. Result in the deposition of pesticides or combination of pesticides detectable in concentrations that adversely affect beneficial uses.
 - d. Discoloration in the receiving water that adversely affects beneficial uses.
 - e. Waters shall not contain biostimulatory substances in concentrations that promote aquatic growths to the extent that such growths cause nuisance or adversely affect beneficial uses.
 - f. Increase turbidity that results in adversely affecting beneficial uses.
 - g. The normal ambient pH to fall below 6.0 or exceed 9.0 units.
 - h. The natural receiving water temperature of surface waters shall not be altered by discharges of wastewater unless it can be demonstrated to the satisfaction of the Regional Board that such alteration in temperature does not adversely affect beneficial uses.
 - i. Result in the deposition of material that causes nuisance or adversely affects beneficial uses.
 - j. No individual chemical or combination of chemicals shall be present in concentrations that adversely affect beneficial uses.
 - k. Toxic pollutants to be present in the water column, sediments or biota in concentrations that adversely affect beneficial uses or that produce detrimental physiological responses in human, plant, animal, or aquatic life.
 - 1. Taste or odor-producing substances that adversely affect beneficial uses.
 - 2. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional Water Board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder. If

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT ORDER NO. R7-2005-0084 NPDES NO. CA0104400

more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Regional Water Board will revise and modify this Permit in accordance with such more stringent standards.

B. Groundwater Limitations

The discharge shall not cause the underlying groundwater to be degraded, to exceed water quality objectives, unreasonably affect beneficial uses, or cause a condition of pollution or nuisance.

VI. PROVISIONS

A. Standard Provisions

- 1. **Federal Standard Provisions.** The Discharger shall comply with all Standard Provisions included in Attachment D of this Order.
- 2. **Regional Water Board Standard Provisions.** The Discharger shall comply with the following provisions:
 - a. The City of Imperial Water Pollution Control Plant shall be protected from any washout or erosion of wastes or covering material, and from any inundation, which could occur as a result of floods having a predicted frequency of once in 100 years.
 - b. The Discharger shall comply with all conditions of this Board Order. Noncompliance constitutes a violation of the Federal Clean Water Act and Porter-Cologne Water Quality Control Act, and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification of waste discharge requirements; or denial of a Permit renewal application.
 - c. The Discharger shall ensure that all site-operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
 - d. The Discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 4, Division 4, Title 23 of the California Code of Regulations. The Discharger shall ensure that all operating personnel are familiar with the contents of this Board Order.
 - e. The Discharger shall report any noncompliance that may endanger human health or the environment. The Discharger shall immediately report orally information of the noncompliance as soon as (1) the Discharger has knowledge of the discharge, (2) notification is possible, and (3) notification can be provided without substantially impeding cleanup or other emergency measures, to the Regional Board office and the Office of Emergency Services. During non-business hours, the Discharger shall leave a message on the Regional Board office voice recorder. A written report shall also be provided within five (5) business days of the time the Discharger becomes aware of the

incident. The written report shall contain a description of the noncompliance and its cause, the period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned, to reduce, eliminate, and prevent recurrence of the noncompliance. The Discharger shall report all intentional or unintentional spills in excess of one thousand (1,000) gallons occurring within the facility or collection system to the Regional Board office in accordance with the above time limits.

- f. The Discharger shall provide a report to the Regional Board when it determines that the treatment plant's average dry weather flow rate for any month exceeds 80 percent of the design treatment capacity specified in Finding No. II.B above. The report should indicate what steps, if any, the Discharger intends to take to provide for the expected wastewater treatment capacity necessary when the plant reaches design capacity.
- g. Prior to any change in ownership or management of this operation, the Discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
- h. Prior to any modifications in this facility, which would result in material change in the quality or, quantity of wastewater treated or discharged, or any material change in the location of discharge, the Discharger shall report all pertinent information in writing to the Regional Board and obtain revised requirements before any modifications are implemented.
- i. The Discharger shall provide adequate notice to the Regional Board's Executive Officer of the following:
 - i. Any new introduction of pollutants into any of the treatment facilities described in the Findings of this Board Order from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act, if it were directly discharging the pollutants.
 - ii. Any substantial change in the volume or character of pollutants being introduced into any of the treatment facilities described in the Findings of this Board Order by an existing or new source.
 - iii. Any planned physical alterations or additions to the facilities described in this Board Order, or changes planned in the Discharger's sludge use or disposal practice, where such alterations, additions, or changes may justify the application of Board Order conditions that are different from or absent in the existing Board Order, including notification of additional disposal sites not reported during the Board Order application process, or not reported pursuant to an approved land application plan.
 - iv. Adequate notice shall include information on the quality and quantity of effluent introduced, and any anticipated impact of the change on the quantity or quality of the Discharger's effluent and/or sludge.

- j. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.
- k. This Board Order does not authorize violation of any federal, state, or local laws or regulations.
- 1. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

B. Monitoring and Reporting Program Requirements

The Discharger shall comply with the Monitoring and Reporting Program, and future revisions thereto, in Attachment E of this Order.

C. Special Provisions

1. Reopener Provisions

- a. The Discharger shall submit data sufficient to determine if a water quality-based effluent limitation is required in the discharge permit as required under the SIP. It is the Discharger's responsibility to provide all information requested by the Regional Board for use in the analysis. The permit shall be reopened to establish water quality-based effluent limitations, if necessary.
- b. The permit shall be reopened and modified or revoked and reissued as a result of the detection of a reportable priority pollutant identified by special conditions' monitoring data, included in this permit. These special conditions in the permit may be, but are not limited to, fish tissue sampling, whole effluent toxicity tests, monitoring requirements on internal waste stream(s), and monitoring for surrogate parameters. Additional requirements may be included in the permit as a result of the special condition monitoring data.
- c. This Board Order may be modified, rescinded and reissued, for cause. The filing of a request by the Discharger for a Board Order modification, rescission and reissuance, or a notification of planned changes or anticipated noncompliance does not stay any Board Order condition. Causes for modification include the promulgation of new regulations, modification of land application plans, or modification in sludge use or disposal practices, or adoption of new regulations by the State Board or the Regional Board, including revisions to the Basin Plan.
- d. TMDLs for pesticides and selenium are to be developed by the Regional Board. The permit may be reopened and modified in future to include appropriate requirements necessary to fully implement the approved TMDL if needed.

e. This Order may be reopened and the Whole Effluent Toxicity (WET) Testing Requirements contained in the Attachment E, Monitoring and Reporting Program, Section V modified to address changes to USEPA or State Water Board policies or guidance regarding the testing or reporting requirements for WET testing.

2. Special Studies, Technical Reports and Additional Monitoring Requirements

- a. Toxicity Identification Evaluations or Toxicity Reduction Evaluations. The Discharger shall submit to the Regional Board a toxicity reduction evaluation (TRE) workplan (1-2 pages) within 90 days of the effective date of this permit. This plan shall describe the steps the permittee intends to follow in the event that toxicity is detected, and should include at a minimum:
 - 1) A description of the investigation and evaluation techniques that will be used to identify potential causes/sources of toxicity, effluent variability, and treatment system efficiency;
 - 2) A description of the facility's method of maximizing in-house treatment efficiency and good housekeeping practices, and a list of all chemicals used in operation of the facility;
 - 3) If a toxicity identification evaluation (TIE) is necessary, who will conduct it (i.e., in-house or outside consultant).
- b. Translator Study. In addition, should the Discharger request to use a translator for metals and selenium different than the U.S. EPA conversion factor, it shall complete a translator study within two years from the date of the issuance of this permit as stated in the SIP. In the event a translator study is not completed within the specified time, the U.S. EPA conversion factor-based effluent limitation as specified in the CTR shall be effective as a default limitation.
- c. **Pollutant Minimization Study.** In accordance with Section 2.4.5 of the SIP the Discharger shall conduct a Pollutant Minimization Program as specified in Special Provision VI.C.4.c of this Order when there is evidence that the priority pollutant is present in the effluent above an effluent limitation and either:
 - 1) A sample result is reported as DNQ and the effluent limitation is less than reported ML; or
 - 2) A sample is reported as ND and the effluent limitation is less than the MDL.

Evidence that a priority pollutant may be present includes, but is not limited to, sample results reported as DNQ, when the effluent limitation is less than the MDL, sample results from analytical methods more sensitive than those methods included in this Order in accordance with the SIP, presence of whole effluent toxicity, health advisories for fish consumptions, and results of benthic or aquatic organism tissue sampling.

- d. Total Dissolved Solids Study. The Discharger shall perform a study to evaluate whether a 400 mg/L incremental increase in salinity above the source water is practical and if not, what incremental increase is practical for their discharge. This report shall be submitted to the Regional Board's Executive Officer prior to the filing date for re-application. The following items describe the purpose and description of the minimum requirements for the report:
 - The permitting authority may permit a discharge in excess of the 400 mg/L
 incremental increase at the time of issuance or reissuance of a NPDES discharge
 permit, upon satisfactory demonstration by the permittee that it is not practicable to
 attain the 400 mg/L limit.
 - 2) Demonstration by the applicant must include information on the following factors relating to the potential discharge:
 - (a) Description of the municipal entity and facilities.
 - (b) Description of the quantity and salinity of domestic water sources contributing to discharge.
 - (c) Description of significant salt sources of the municipal wastewater collection system, and identification of entities responsible for each source, if available.
 - (d) Description of water rights, including diversions and consumptive use quantities.
 - (e) Description of the wastewater discharge, receiving waters, quantity, salt load, and salinity.
 - (f) Alternative plans for minimizing salt contribution from the municipal discharge. Alternative plans should include:
 - Description of system salt sources and alternative means of control; and
 - Cost of alternative plans in dollars per ton, of salt removed from discharge
 - (g) Such other information pertinent to demonstration of non-practicability as the permitting authority may deem necessary.
 - 3) In determining what permit conditions shall be required, the permit issuing authority shall consider the following criteria including, but not limited to:
 - (a) The practicability of achieving the 400 mg/L incremental increase.
 - (b) Where the 400 mg/L incremental increase is not determined to be practicable, the discharger shall provide the following:
 - The impact of the proposed salt input of each alternative on the beneficial uses of the surface water in terms of tons per year and concentration;

- Costs per ton of salt removed from discharge of each alternative plan;
- Capability of minimizing the salt discharge;
- A proposed value for the practical incremental increase; and
- A justification for the proposed practical incremental increased value.

3. Best Management Practices and Pollution Prevention - Not Applicable

4. Compliance Schedules

- a. Compliance Plan. The Discharger shall implement its compliance plan provided with its Infeasibility Report submitted on March 16, 2005 that identified the measures that will be taken to reduce the concentrations of selenium and thallium in their discharge to achieve compliance with the permit limitations specified in Effluent Limitations, IV.A.1.of this Order.
- b. **Pollutant Minimization Program (PMP).** When required to develop a Pollutant Minimization Program (PMP) in accordance with Special Provision VI.C.2.c of this Order, the Discharger shall develop a PMP in accordance with Section 2.4.5.1 of the SIP as described below:

The goal of the PMP shall be to reduce all potential sources of a priority pollutant(s) through pollutant minimization (control) strategies, including pollution prevention measures as appropriate, to maintain the effluent concentration at or below the water quality based effluent limitations specified in Sections IV.A.1.c, IV.A.2.a and IV.A.2.b of this Order. The PMP shall include, but not be limited to, the following actions and submittals acceptable to the Regional Board:

- 1) An annual review and semi-annual monitoring of potential sources of the reportable priority pollutant(s), which may include fish tissue monitoring and other bio-uptake sampling;
- 2) Quarterly monitoring for the reportable priority pollutant(s) in the influent to the wastewater treatment system;
- 3) Implementation of appropriate cost-effective control measures consistent with the control strategy;
- 4) An annual status report that shall be sent to the Regional Board at the same time the annual summary report is submitted in accordance with Attachment E, Reporting Requirements, and include:
 - All PMP monitoring results for the previous year
 - A list of potential sources of selenium and thallium
 - A summary of all actions undertaken pursuant to the control strategy
 - A description of actions to be taken in the following year.

5. Construction, Operation and Maintenance Specifications

a. Facility and Treatment Operation

- i. The Discharger shall, at all times, properly operate and maintain all systems and components of collection, treatment and control which are installed or used by the Discharger to achieve compliance with the conditions of this Board Order. Proper operation and maintenance includes effective performance, adequate process controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of this Board Order. All systems both in service and reserved, shall be inspected and maintained on a regular basis. Records shall be kept of the inspection results and maintenance performed and made available to the Regional Board upon demand.
- ii. Temporary power shall be provided to maintain the plant in operation in the event of commercial power failure.

b. Spill Response Plan

- i. The Discharger shall review its current Spill Response Plan (SRP) developed under previous Order 00-040 and revise if needed within 60 days after the effective date of this Order. Revised plans shall be submitted for Regional Board staff review. Thereafter, the plan shall be updated annually, and shall be available for staff review during Regional Board inspections. The Discharger shall ensure that all operating personnel are familiar with the contents of the SRP. A copy of the SRP shall be maintained at the site and shall be accessible to all operating personnel.
- c. Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the wastewater disposal facilities.

6. Special Provisions for Municipal Facilities (POTWs Only)

a. Sludge Disposal Requirements

- i. The Discharger shall provide a plan as to the method, treatment, handling and disposal of sludge that is consistent with all State and Federal laws and regulations and obtain prior written approval from the Regional Board specifying location and method of disposal, before disposing of treated or untreated sludge, or similar solid waste materials using an alternative method.
- ii. The Discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the Monitoring and Reporting Program of this Board Order. The sludge that is stockpiled at the treatment facility shall be sampled and analyzed for those constituents listed in the sludge monitoring

- section of the Monitoring and Reporting Program of this Board Order and as required by Title 40, Code of Federal Regulations, Part 503. The results of the analyses should be submitted to the Regional Board as part of the Monitoring and Reporting Program.
- iii. All sludge generated at the wastewater treatment plant will be disposed, treated, or applied to land in accordance with Federal Regulations 40 CFR 503.
- iv. Collected screenings, sludge, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with State Water Resources Control Board and Integrated Waste Management Board's joint regulations (Title 27) of the California Code of Regulations and approved by the Regional Board's Executive Officer.

b. Pretreatment

- i) In the event that (i) the facility has a treatment capacity greater than 5 MGD and Industrial Users [40 CFR 403.3(h) are discharging pollutants which Pass Through [40 CFR 403.3(n)] or Interfere [40 CFR 403.3(i)] with the operation of the wastewater treatment facility or are otherwise subject to National Pretreatment Standards [40 CFR 403.3(j)], (ii) Cal. Code of Regs, Title 23, section 2233 requires the facility to have and enforce an adequate pretreatment program, or (iii) the Regional Water Board or its Executive Officer determines that other circumstances warrant in order to prevent Interference with the wastewater treatment facility or Pass Through, then:
 - (a) The Discharger shall be responsible for the performance of all pretreatment requirements contained in the Code of Federal Regulations, Part 40, Section 403, and shall be subject to enforcement actions, penalties, and other remedies by the United States Environmental Protection Agency, or the Regional Water Board, as provided in the Federal Clean Water Act, as amended (33 USC 1251 et. seq.) (hereafter "Act").
 - (b) Within 365 days of the significant industrial wastewaters being discharged to the wastewater treatment plant, the Discharger shall seek a formal approval of its Pretreatment Plan, from the Regional Water Board.
 - (c) The Discharger must seek approval of its Pretreatment Program from the Regional Water Board subject to Provision VI.C.1.d of this Order in the event a Pretreatment Program is developed.
- d. Combined Sewer Overflows (CSOs) Not Applicable
- e. Sanitary Sewer Overflows/Collection Systems Not Applicable

7. Other Special Provisions

- a. This discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Regional board or the State Water Resources Control Board as required by the Federal Clean Water Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Regional Water Board will revise and modify this Board Order in accordance with such more stringent standards.
- b. The Discharger may be required to submit technical reports as directed by the Regional Board's Executive Officer.
- c. The Discharger shall exclude from the wastewater treatment plant any liquid or solid waste that could adversely affect the plant operation or effluent quality. The excluded liquid or solid waste shall be disposed of in accordance with applicable regulations.

VII. Compliance Determination

Compliance with the effluent limitations contained in Section IV of this Order will be determined as specified below:

A. Average Monthly Effluent Limitation (AMEL).

If the average of daily discharges over a calendar month exceeds the AMEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that month for that parameter (e.g., resulting in 31 days of non-compliance in a 31-day month). The average of daily discharges over the calendar month that exceeds the AMEL for a parameter will be considered out of compliance for that month only. If only a single sample is taken during the calendar month and the analytical result for that sample exceeds the AMEL, the Discharger will be considered out of compliance for that calendar month. For any one calendar month during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar month.

B. Average Weekly Effluent Limitation (AWEL).

If the average of daily discharges over a calendar week exceeds the AWEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for each day of that week for that parameter, resulting in 7 days of non-compliance. The average of daily discharges over the calendar week that exceeds the AWEL for a parameter will be considered out of compliance for that week only. If only a single sample is taken during the calendar week and the analytical result for that sample exceeds the AWEL, the Discharger will be considered out of compliance for that calendar week. For any one calendar week during which no sample (daily discharge) is taken, no compliance determination can be made for that calendar week.

C. Maximum Daily Effluent Limitation (MDEL).

If a daily discharge exceeds the MDEL for a given parameter, an alleged violation will be flagged and the Discharger will be considered out of compliance for that parameter for that 1 day only within the reporting period. For any 1 day during which no sample is taken, no compliance determination can be made for that day.

D. Instantaneous Minimum Effluent Limitation.

If the analytical result of a single grab sample is lower than the instantaneous minimum effluent limitation for a parameter, a violation will be flagged and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both are lower than the instantaneous minimum effluent limitation would result in two instances of non-compliance with the instantaneous minimum effluent limitation).

E. Instantaneous Maximum Effluent Limitation.

If the analytical result of a single grab sample is higher than the instantaneous maximum effluent limitation for a parameter, a violation will be flagged and the Discharger will be considered out of compliance for that parameter for that single sample. Non-compliance for each sample will be considered separately (e.g., the results of two grab samples taken within a calendar day that both exceed the instantaneous maximum effluent limitation would result in two instances of non-compliance with the instantaneous maximum effluent limitation).

F. Water Quality-Based Effluent Limitations.

- 1. In accordance with Section 2.4.5 of the SIP, compliance with water quality-based effluent limitations shall be determined as follows:
 - a. Dischargers shall be deemed out of compliance with an effluent limitation if the concentration of the priority pollutant in the monitoring sample is greater than the effluent limitation and greater than or equal to the reported Minimum Level (ML).
 - b. When determining compliance with an average monthly effluent limitation and more than one sample result is available in a month, the Discharger shall compute the arithmetic mean unless the data set contains one or more reported determinations of DNQ or ND. In those cases, the Discharger shall compute the median in place of the arithmetic mean in accordance with the following procedure:
 - 1) The data set shall be ranked from low to high, reported ND determinations lowest, DNQ determinations next, followed by quantified values (if any). The order of the individual ND or DNQ determinations is unimportant.
 - 2) The median value of the data set shall be determined. If the data set has an odd number of data points, then the median is the middle value. If the data set has an even number of data points, then the median is the average of the two values around the middle unless one or both of the points are ND or DNQ, in which case the median value shall be the lower of the two data points where DNQ is lower than a value and ND is lower than DNQ.

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT ORDER NO. R7-2005-0084 NPDES NO. CA0104400

3) If a sample result, or the arithmetic mean or median of multiple sample results, is below the reported ML, and there is evidence that the priority pollutant is present in the effluent above an effluent limitation <u>and</u> the Discharger conducts a PMP, the Discharger shall <u>not</u> be deemed out of compliance.

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT ORDER NO. R7-2005-0084 NPDES NO. CA0104400

ATTACHMENT A - DEFINITIONS

20°C BOD₅: Biochemical oxygen demand 5-day at 20°C.

Average Monthly Effluent Limitation (AMEL): the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Effluent Limitation (AWEL): the highest allowable average of daily discharges over a calendar week (Sunday through Saturday), calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Daily Discharge: Daily Discharge is defined as either: (1) the total mass of the constituent discharged over the calendar day (12:00 am through 11:59 pm) or any 24-hour period that reasonably represents a calendar day for purposes of sampling (as specified in the permit), for a constituent with limitations expressed in units of mass or; (2) the unweighted arithmetic mean measurement of the constituent over the day for a constituent with limitations expressed in other units of measurement (e.g., concentration).

The daily discharge may be determined by the analytical results of a composite sample taken over the course of one day (a calendar day or other 24-hour period defined as a day) or by the arithmetic mean of analytical results from one or more grab samples taken over the course of the day.

For composite sampling, if 1 day is defined as a 24-hour period other than a calendar day, the analytical result for the 24-hour period will be considered as the result for the calendar day in which the 24-hour period ends.

Instantaneous Maximum Effluent Limitation: the highest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous maximum limitation).

Instantaneous Minimum Effluent Limitation: the lowest allowable value for any single grab sample or aliquot (i.e., each grab sample or aliquot is independently compared to the instantaneous minimum limitation).

Log Mean of Most Probable Number (MPN): the geometric mean of E. coli bacteria data (measured as MPN per 100 milliliters), based on a minimum of not less than five samples during the calendar month. The geometric mean is equal to the antilog of the average of log-transformed data.

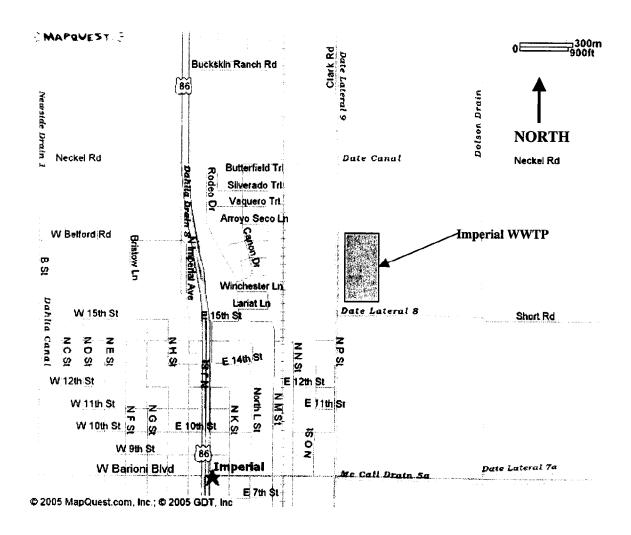
Maximum Daily Effluent Limitation (MDEL): the highest allowable daily discharge of a pollutant.

mg/L: milligrams per Liter.

 μ g/L: micrograms per Liter.

MGD Million gallons per day.

ATTACHMENT B - SITE MAP

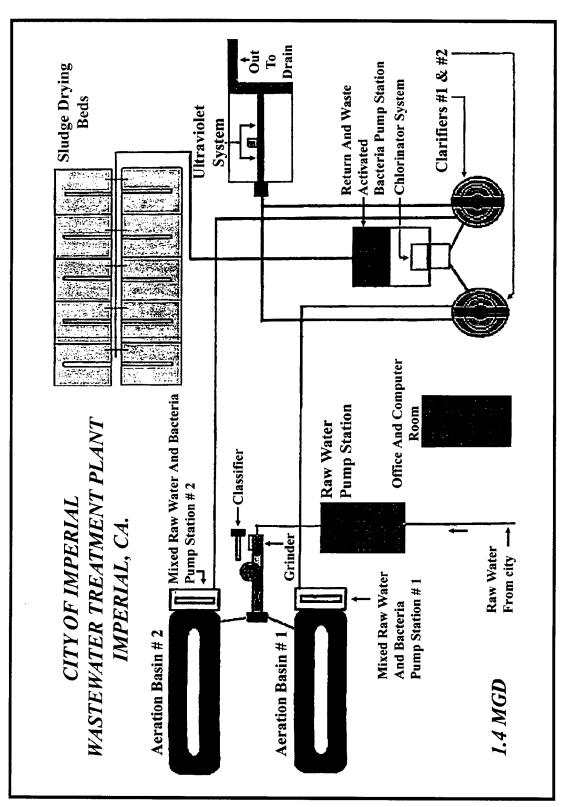


SITE MAP

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION PLANT Imperial, CA – Imperial County Facility Location - Latitude 32°, 15', 16.5" N, Longitude 115°, 33'41.6" W

Board Order No. R7-2005-0084

ATTACHMENT C - FLOW SCHEMATIC



ATTACHMENT D - FEDERAL STANDARD PROVISIONS

I. STANDARD PROVISIONS - PERMIT COMPLIANCE

A. Duty to Comply

- 1. The Discharger must comply with all of the conditions of this Order. Any noncompliance constitutes a violation of the Clean Water Act (CWA) and the California Water Code (CWC) and is grounds for enforcement action, for permit termination, revocation and reissuance, or denial of a permit renewal application [40 CFR §122.41(a)].
- 2. The Discharger shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions, even if this Order has not been modified to incorporate the requirement [40 CFR §122.41(a)(1)].

B. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a Discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Order [40 CFR §122.41(c)].

C. Duty to Mitigate

The Discharger shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this Order that has a reasonable likelihood of adversely affecting human health or the environment [40 CFR §122.41(d)].

D. Proper Operation and Maintenance

The Discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Discharger to achieve compliance with the conditions of this Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems that are installed by a Discharger only when necessary to achieve compliance with the conditions of this Order [40 CFR §122.41(e)].

E. Property Rights

- 1. This Order does not convey any property rights of any sort or any exclusive privileges [40 CFR §122.41(g)].
- 2. The issuance of this Order does not authorize any injury to persons or property or invasion of other private rights, or any infringement of State or local law or regulations [40 CFR §122.5(c)].

F. Inspection and Entry

The Discharger shall allow the Regional Water Quality Control Board (RWQCB), State Water Resources Control Board (SWRCB), United States Environmental Protection Agency (USEPA), and/or their authorized representatives (including an authorized contractor acting as their representative), upon the presentation of credentials and other documents, as may be required by law, to [40 CFR §122.41(i)] [CWC 13383(c)]:

- 1. Enter upon the Discharger's premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order [40 CFR §122.41(i)(1)];
- 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order [40 CFR §122.41(i)(2)];
- 3. Inspect and photograph, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order [40 CFR §122.41(i)(3)];
- 4. Sample or monitor, at reasonable times, for the purposes of assuring Order compliance or as otherwise authorized by the CWA or the CWC, any substances or parameters at any location [40 CFR §122.41(i)(4)].

G. Bypass

1. Definitions

- a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility $[40 \ CFR \ \S 122.41(m)(1)(i)]$.
- b. "Severe property damage" means substantial physical damage to property, damage to the treatment facilities, which causes them to become inoperable, or substantial and permanent loss of natural resources that can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production [40 CFR §122.41(m)(1)(ii)].
- 2. Bypass not exceeding limitations The Discharger may allow any bypass to occur which does not cause exceedances of effluent limitations, but only if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed in Standard Provisions Permit Compliance I.G.3 and I.G.5 below [40 CFR §122.41(m)(2)].
- 3. Prohibition of bypass Bypass is prohibited, and the Regional Water Board may take enforcement action against a Discharger for bypass, unless [40 CFR §122.41(m)(4)(i)]:
 - a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage $[40 \ CFR \ \S 122.41(m)(4)(A)];$

- b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance [40 CFR §122.41(m)(4)(B)]; and
- c. The Discharger submitted notice to the Regional Water Board as required under Standard Provision Permit Compliance I.G.5 below $[40 \ CFR \ \S 122.41(m)(4)(C)]$.
- 4. The Regional Water Board may approve an anticipated bypass, after considering its adverse effects, if the Regional Water Board determines that it will meet the three conditions listed in Standard Provisions Permit Compliance I.G.3 above [40 CFR §122.41(m)(4)(ii)].

5. Notice

- a. Anticipated bypass. If the Discharger knows in advance of the need for a bypass, it shall submit a notice, if possible at least 10 days before the date of the bypass [40 CFR §122.41(m)(3)(i)].
- b. Unanticipated bypass. The Discharger shall submit notice of an unanticipated bypass as required in Standard Provisions Reporting V.E below [40 CFR §122.41(m)(3)(ii)].

H. Upset

Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation [40 CFR $\S122.41(n)(1)$].

- 1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph H.2 of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review [40 CFR §122.41(n)(2)].
- 2. Conditions necessary for a demonstration of upset. A Discharger who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that [40 CFR §122.41(n)(3)]:
 - a. An upset occurred and that the Discharger can identify the cause(s) of the upset $[40 \ CFR \ \S 122.41(n)(3)(i)];$
 - b. The permitted facility was, at the time, being properly operated [40 CFR $\S122.41(n)(3)(i)$];

- c. The Discharger submitted notice of the upset as required in Standard Provisions Reporting V.E.2.b [40 CFR §122.41(n)(3)(iii)]; and
- d. The Discharger complied with any remedial measures required under Standard Provisions Permit Compliance I.C above [40 CFR §122.41(n)(3)(iv)].
- 3. Burden of proof. In any enforcement proceeding, the Discharger seeking to establish the occurrence of an upset has the burden of proof $[40 \ CFR \ \S 122.41(n)(4)]$.

II. STANDARD PROVISIONS - PERMIT ACTION

A. General

This Order may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Discharger for modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Order condition [40 CFR §122.41(f)].

B. Duty to Reapply

If the Discharger wishes to continue an activity regulated by this Order after the expiration date of this Order, the Discharger must apply for and obtain a new permit [40 CFR §122.41(b)].

C. Transfers

This Order is not transferable to any person except after notice to the Regional Water Board. The Regional Water Board may require modification or revocation and reissuance of the Order to change the name of the Discharger and incorporate such other requirements as may be necessary under the CWA and the CWC [40 CFR §122.41(1)(3)] [40 CFR §122.61].

III. STANDARD PROVISIONS - MONITORING

- A. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity [40 CFR $\S122.41(j)(1)$].
- B. Monitoring results must be conducted according to test procedures under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503 unless other test procedures have been specified in this Order [40 CFR §122.41(j)(4)] [40 CFR §122.44(i)(1)(iv)].

IV. STANDARD PROVISIONS - RECORDS

A. Except for records of monitoring information required by this Order related to the Discharger's sewage sludge use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), the Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip

CITY OF IMPERIAL
CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT
ORDER NO. R7-2005-0084
NPDES NO. CA0104400

chart recordings for continuous monitoring instrumentation, copies of all reports required by this Order, and records of all data used to complete the application for this Order, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Water Board Executive Officer at any time [40 CFR $\S122.41(j)(2)$].

B. Records of monitoring information shall include:

- 1. The date, exact place, and time of sampling or measurements [40 CFR $\S 122.41(j)(3)(i)$];
- 2. The individual(s) who performed the sampling or measurements [40 CFR §122.41(j)(3)(ii)];
- 3. The date(s) analyses were performed [40 CFR §122.41(j)(3)(iii)];
- 4. The individual(s) who performed the analyses $[40 \ CFR \ \S 122.41(j)(3)(iv)];$
- 5. The analytical techniques or methods used [40 CFR $\S122.41(j)(3)(v)$]; and
- 6. The results of such analyses $[40 \ CFR \ \S 122.41(i)(3)(vi)]$.

C. Claims of confidentiality for the following information will be denied [40 CFR §122.7(b)]:

- 1. The name and address of any permit applicant or Discharger [40 CFR §122.7(b)(1)]; and
- 2. Permit applications and attachments, permits and effluent data [40 CFR §122.7(b)(2)].

V. STANDARD PROVISIONS - REPORTING

A. Duty to Provide Information

The Discharger shall furnish to the Regional Water Board, SWRCB, or USEPA within a reasonable time, any information which the Regional Water Board, SWRCB, or USEPA may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order or to determine compliance with this Order. Upon request, the Discharger shall also furnish to the Regional Water Board, SWRCB, or USEPA copies of records required to be kept by this Order [40 CFR §122.41(h)] [CWC 13267].

B. Signatory and Certification Requirements

- 1. All applications, reports, or information submitted to the Regional Water Board, SWRCB, and/or USEPA shall be signed and certified in accordance with paragraph (2.) and (3.) of this provision [40 CFR §122.41(k)].
- 2. All permit applications shall be signed as follows:
 - a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other

comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures [40 CFR $\S122.22(a)(1)$];

- b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively [40 CFR §122.22(a)(2)]; or
- c. For a municipality, State, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this provision, a principal executive officer of a federal agency includes: (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of USEPA) [40 CFR §122.22(a)(3)].
- 3. All reports required by this Order and other information requested by the Regional Water Board, SWRCB, or USEPA shall be signed by a person described in paragraph (b) of this provision, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in paragraph (2.) of this provision [40 CFR §122.22(b)(1)];
 - b. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position) [40 CFR §122.22(b)(2)]; and
 - c. The written authorization is submitted to the Regional Water Board, SWRCB, or USEPA [40 CFR §122.22(b)(3)].
- 4. If an authorization under paragraph (3.) of this provision is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (3.) of this provision must be submitted to the Regional Water Board, SWRCB or USEPA prior to or together with any reports, information, or applications, to be signed by an authorized representative [40 CFR §122.22(c)].

5. Any person signing a document under paragraph (2.) or (3.) of this provision shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations" [40 CFR §122.22(d)].

C. Monitoring Reports

- 1. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program in this Order [40 CFR §122.41(l)(4)].
- 2. Monitoring results must be reported on a Discharge Monitoring Report (DMR) form or forms provided or specified by the Regional Water Board or SWRCB for reporting results of monitoring of sludge use or disposal practices [40 CFR §122.41(l)(4)(i)].
- 3. If the Discharger monitors any pollutant more frequently than required by this Order using test procedures approved under 40 CFR Part 136 or, in the case of sludge use or disposal, approved under 40 CFR Part 136 unless otherwise specified in 40 CFR Part 503, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or sludge reporting form specified by the Regional Water Board [40 CFR §122.41(1)(4)(ii)].
- 4. Calculations for all limitations, which require averaging of measurements, shall utilize an arithmetic mean unless otherwise specified in this Order [40 CFR §122.41(l)(4)(iii)].

D. Compliance Schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Order, shall be submitted no later than 14 days following each schedule date [40 CFR §122.41(1)(5)].

E. Twenty-Four Hour Reporting

1. The Discharger shall report any noncompliance that may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Discharger becomes aware of the circumstances. A written submission shall also be provided within five (5) days of the time the Discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance [40 CFR §122.41(l)(6)(i)].

- 2. The following shall be included as information that must be reported within 24 hours under this paragraph [40 CFR §122.41(l)(6)(ii)]:
 - a. Any unanticipated bypass that exceeds any effluent limitation in this Order [40 CFR $\S122.41(l)(6)(ii)(A)$].
 - b. Any upset that exceeds any effluent limitation in this Order [40 CFR \$122.41(l)(6)(ii)(B)].
 - c. Violation of a maximum daily discharge limitation for any of the pollutants listed in this Order to be reported within 24 hours $[40 \ CFR \ \S 122.41(l)(6)(ii)(C)]$.
- 3. The Regional Water Board may waive the above-required written report under this provision on a case-by-case basis if an oral report has been received within 24 hours [40 CFR §122.41(1)(6)(iii)].

F. Planned Changes

The Discharger shall give notice to the Regional Water Board as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required under this provision only when [40 CFR §122.41(l)(1)]:

- 1. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR §122.29(b) [40 CFR §122.41(l)(1)(i)]; or
- 2. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in this Order nor to notification requirements under 40 CFR Part 122.42(a)(1) (see Additional Provisions—Notification Levels VII.A.1) [40 CFR §122.41(l)(1)(ii)].
- 3. The alteration or addition results in a significant change in the Discharger's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan [40 CFR §122.41(l)(1)(iii)].

G. Anticipated Noncompliance

The Discharger shall give advance notice to the Regional Water Board or SWRCB of any planned changes in the permitted facility or activity that may result in noncompliance with General Order requirements [40 CFR §122.41(l)(2)].

CITY OF IMPERIAL CITY OF IMPERIAL WATER POLLUTION CONTROL PLANT ORDER NO. R7-2005-0084 NPDES NO. CA0104400

H. Other Noncompliance

The Discharger shall report all instances of noncompliance not reported under Standard Provisions – Reporting E.3, E.4, and E.5 at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision – Reporting V.E [40 CFR §122.41(1)(7)].

I. Other Information

When the Discharger becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Regional Water Board, SWRCB, or USEPA, the Discharger shall promptly submit such facts or information [40 CFR §122.41(1)(8)].

VI. STANDARD PROVISIONS - ENFORCEMENT

A. The CWA provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The CWA provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the Clean Water Act, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions [40 CFR §122.41(a)(2)] [CWC 13385 and 13387].

- B. Any person may be assessed an administrative penalty by the Regional Water Board for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000 [40 CFR \$122.41(a)(3)].
- C. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than 4 years, or both [40 CFR §122.41(j)(5)].
- **D.** The CWA provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this Order, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both [40 CFR §122.41(k)(2)].

VII. ADDITIONAL PROVISIONS – NOTIFICATION LEVELS

A. Non-Municipal Facilities

Existing manufacturing, commercial, mining, and silvicultural dischargers shall notify the Regional Water Board as soon as they know or have reason to believe [40 CFR §122.42(a)]:

- 1. That any activity has occurred or will occur that would result in the discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(1)]:
 - a. 100 micrograms per liter (μ g/L) [40 CFR §122.42(a)(1)(i)];
 - b. 200 μg/L for acrolein and acrylonitrile; 500 μg/L for 2,4-dinitrophenol and
 2-methyl-4,6-dinitrophenol; and 1 milligram per liter (mg/L) for antimony [40 CFR §122.42(a)(1)(ii)];
 - c. Five (5) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(1)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(1)(iv)].

- 2. That any activity has occurred or will occur that would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant that is not limited in this Order, if that discharge will exceed the highest of the following "notification levels" [40 CFR §122.42(a)(2)]:
 - a. 500 micrograms per liter (μ g/L) [40 CFR §122.42(a)(2)(i)];
 - b. 1 milligram per liter (mg/L) for antimony $[40 \ CFR \ \S 122.42(a)(2)(ii)];$
 - c. Ten (10) times the maximum concentration value reported for that pollutant in the Report of Waste Discharge [40 CFR §122.42(a)(2)(iii)]; or
 - d. The level established by the Regional Water Board in accordance with 40 CFR §122.44(f) [40 CFR §122.42(a)(2)(iv)].

B. Publicly-Owned Treatment Works (POTWs)

All POTWs shall provide adequate notice to the Regional Water Board of the following [40 CFR §122.42(b)]:

- 1. Any new introduction of pollutants into the POTW from an indirect discharger that would be subject to Sections 301 or 306 of the CWA if it were directly discharging those pollutants [40 CFR §122.42(b)(1)]; and
- 2. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of adoption of the Order [40 CFR §122.42(b)(2)].

Adequate notice shall include information on the quality and quantity of effluent introduced into the POTW as well as any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW $[40 \ CFR \ \S 122.42(b)(3)]$.

Attachment E – Monitoring and Reporting Program – Table of Contents

Attac	chment E – Monitoring and Reporting Program (MRP)	2
I.	General Monitoring Provisions	2
II.	Monitoring Locations	4
III.	Influent Monitoring Requirements	4
IV.	Effluent Monitoring Requirements	4
	A. Monitoring Location M-001	4
V.	Whole Effluent Toxicity Testing Requirements	5
VI.	Land Discharge Monitoring Requirements	9
	Reclamation Monitoring Requirements	
VIII.	. Receiving Water Monitoring Requirements	. 10
	A. Monitoring Location R-001	. 10
	B. Monitoring Location R-002	
IX.	Other Monitoring Requirements (IF APPLICABLE)	. 11
X.	Reporting Requirements	
	A. General Monitoring and Reporting Requirements	. 11
	B. Self Monitoring Reports	
	C. Discharge Monitoring Reports	. 13
	D. Other Reports	. 13

ATTACHMENT E – MONITORING AND REPORTING PROGRAM (MRP)

The Code of Federal Regulations (CFR) at 40 CFR §122.48 requires that all NPDES permits specify monitoring and reporting requirements. CWC sections 13267 and 13383 also authorize the Regional Water Quality Control Board (RWQCB) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements which implement the federal and California regulations.

I. GENERAL MONITORING PROVISIONS

- A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of this Regional Board,
- B. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ±10 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:
 - "A Guide to Methods and Standards for the Measurement of Water Flow," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 96 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)
 - "Water Measurement Manual," U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Order by Catalog No. 172.19/2:W29/2, Stock No. S/N 24003-0027.)
 - "Flow Measurement in Open Channels and Closed Conduits," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Services (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273 535/5ST.)
 - "NPDES Compliance Sampling Manual," U.S. Environmental Protection Agency, Office of Water Enforcement, Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, CO 80225.)

- C. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.
- **D.** All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.
- E. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this Monitoring and Reporting Program.
- F. The collection, preservation and holding times of all samples shall be in accordance with United States Environmental Protection Agency (USEPA) approved procedures. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted by a laboratory certified by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of the "Guidelines Establishing Test Procedures for Analysis of Pollutants" (40 CFR Part 136), promulgated by the USEPA.
- G. If the facility is not in operation, or there is no discharge during a required reporting period, the Discharger shall forward a letter to the Regional Board indicating that there has been no activity during the required reporting period.

II. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Discharge Point Monitoring Name Location Name		Monitoring Location Description (include Latitude and Longitude who available)	
	M-INF	Wastewater influent to the treatment facilities	
001	M-001	Representative sample from the total effluent wastewater flow prior to discharge from Discharge Point 001; 32 °, 51', 16.5" N Latitude and 115 °, 33', 41.6" W Longitude	
	R-001	Receiving water monitoring location not to exceed 100 feet upstream from the point of discharge.	
	R-002	Receiving water monitoring location not to exceed 200 feet downstream of the discharge pipe outlet at a point where the plume would be expected.	
	S-001	Sludge removed for disposal	

III. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location M-INF

1. The Discharger shall monitor influent to the facility at M-INF as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
20°C BOD ₅	mg/L	24-Hr. Composite	2x/Month	1
Suspended Solids	mg/L	24-Hr. Composite	2x/Month	1

¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board.

IV. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Location M-001

1. The Discharger shall monitor the effluent from the treatment system at M-001 as follows:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Daily Effluent Discharge	mgd	Flow Meter Reading	1x/Day	2
20°C BOD₅	mg/L	24-Hr. Composite	lx/Week	i
Suspended Solids	mg/L	24-Hr. Composite	1x/Week	1
pН	pH units	Grab	1x/Day	1
Escherichia Coli (E. Coli)	Number/ 100 ml	Grab	5x/Month	3
Nitrates as Nitrogen (N)	mg/L	24-Hr. Composite	1x/Month	1

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Nitrites as N	mg/L	24-Hr. Composite	1x/Month	. 1
Ammonia Nitrogen as N	mg/L	24-Hr. Composite	1x/Month	1
Total Nitrogen as N	mg/L	24-Hr. Composite	1x/Month	1
Total Phosphate as Phosphorus (P)	mg/L	24-Hr. Composite	1x/Month	1
Ortho-Phosphate as P	mg/L	24-Hr. Composite	1x/Month	1
Total Dissolved Solids ⁵	mg/L	24-Hr. Composite	1x/Month	1
Oil and Grease	mg/L	24-Hr. Composite	lx/Year	1
Temperature	°F	Grab	1x/Week	l l
Hardness (as CaCO ₃)	mg/L	Grab	1x/Month	1
Selenium	μg/L	24-Hr. Composite	1x/Month	1
Thallium	μg/L	24-Hr. Composite	1x/Month	1
Priority Pollutants 4	μg/L	Grab	1x/Year	1

- 1 Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board.
- 2 Report total daily flow and monthly average daily flow.
- 3 The Discharger may monitor for E. coli using analytical methods, Standard Method 9221.F or 9223, (APHA. 1998, 1995, 1992. Standard Methods for the Examination of Water and Wastewater. American Public Health Association, 20th, 19th and 18th Editions. Amer. Publ. Hlth. Assoc., Washington, D.C.). Samples are to be equally spaced throughout the calendar month reporting period.
- 4 Priority Pollutants as defined by the California Toxics Rule (CTR) defined in Finding II.I of the Limitations and Discharge Requirements of this Order, and included as Attachment H.
- 5 Reported as daily maximum and annual average.

V. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

A. Monitoring Requirements

- 1. Bioassays shall be performed to evaluate the toxicity of the discharged wastewater in accordance with the following procedures unless otherwise specified by the Regional Board's Executive Officer or his designee:
 - a. Bioassays shall be conducted on a sensitive fish species and an invertebrate species as approved by the Regional Board's Executive Officer. <u>Pimephales promelas</u> (fathead minnow) and <u>Ceriodaphnia dubia</u> (water flea) are suggested test species that may be utilized. The bioassays shall be conducted in accordance with the protocol given in EPA/821-R-02-013 <u>Short Term Methods for Estimating the Chronic Toxicity of Effluent and Receiving Waters to Freshwater Organisms</u>, 4th <u>Edition</u>, and <u>EPA/821-R-02-012 Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters for Freshwater and Marine Organisms</u>, 5th <u>Edition</u>, or subsequent editions.

2. The Discharger shall conduct chronic and acute toxicity testing on the final effluent discharged to Dolson Drain at monitoring point M-001 as follows:

Test	Units	Sample Type	Minimum Sampling Frequency
Chronic Toxicity	TU_c	24-hr Composite	1x/Quarter
Acute Toxicity 1	TU _a ²	24-hr. composite	1x/Quarter

Acute Bioassay results can be calculated from chronic bioassay test for Pimephales promelas

3. Both test species given below shall be used to measure chronic and acute toxicity:

Species	Effect	[est Duration (days)	Reference ¹
Fathead Minnow (Pimephales promelas)	Larval Survival and Growth	7	EPA/821-R-02-013 (Chronic) EPA/821-R-02-012 (Acute)
Water Flea (Ceriodaphnia dubia)	Survival and Reproduction	7	EPA/821-R-02-013 (Chronic) EPA/821-R-02-012 (Acute)

¹ Additional references listed in Section V.A.4

- 4. Toxicity Test References for Conducting Toxicity Tests
 - a. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, EPA/821-R-02-012, October, 2002 or subsequent editions.
 - b. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water for Freshwater Organisms, Fourth Edition, EPA/821-R-02-013, October, 2002 or subsequent editions.

B. Quality Assurance

- Dilution and control waters may be obtained from an unaffected area of receiving waters.
 Synthetic (standard) dilution is an option and may be used if the above source is suspected to have toxicity greater than 1.0 TU_c
- 2. A series of at least five dilutions and a control shall be tested for chronic toxicity testing and may be used for acute toxicity testing. The series shall include the following concentrations: 12.5, 25, 50, 75, and 100 percent effluent.
- 3. For the acute toxicity testing using a t-test, two dilutions shall be used, i.e., 100 percent effluent and a control (when a t-test is used instead of an LC50).

² Discharger can provide Pass/Fail when using a t-test

² Acute Bioassay results can be calculated from chronic bioassay tests.

- 4. If organisms are not cultured in-house, concurrent testing with a referenced toxicant shall be conducted. Where organisms are cultured in-house, monthly reference toxicant testing is sufficient. Reference toxicant tests also shall be conducted using the same test conditions as the effluent toxicity tests (e.g., same test duration, etc.).
- 5. If either the reference toxicant test or effluent test does not meet all test acceptability criteria (TAC) as specified in the toxicity test references, then the permittee must re-sample and retest within 15 working days or as soon as possible. The restesting period begins when the Discharger receives the test results that indicate retesting is needed and ends when the discharger collects the first sample required to complete the retest.
- 6. The reference toxicant and effluent tests must meet the upper and lower bounds on test sensitivity as determined by calculating the percent minimum significant difference (PSMD) for each test result. The test sensitivity bound is specified for each test method in the respective methods manuals.

C. Accelerated Monitoring Requirements

The Discharger shall implement an accelerated monitoring frequency consisting of performing three toxicity tests in a nine-week period beginning from the date the Discharger receives the results indicating an initial exceedance of the chronic or acute toxicity triggers described below:

Any chronic toxicity test that exceeds 2 chronic toxicity units (TU_c) or a three (3)-sample median¹ (consecutive samples) that exceeds 1 TU_c shall trigger an accelerated monitoring frequency. In addition, any acute toxicity test results showing high toxicity shall trigger an accelerated monitoring frequency. High acute toxicity is defined as follows:

- a. Less than 80% survival when acute toxicity is calculated from results of the chronic toxicity test (only for *Pimephales promelas*), or
- b. Less than 90% survival when acute toxicity is calculated from the results of the acute toxicity test, or
- c. Results of acute toxicity t-test for 100 percent effluent concentration that is reported as

Accelerated monitoring frequency shall consist of performing three (3) toxicity tests in a nine (9)-week period beginning from the date the Discharger receives the results indicating an initial exceedance of the chronic or acute toxicity triggers. The scope of accelerated monitoring shall be limited to the species and analytical method that failed the test.¹

If implementation of the generic TRE workplan indicates the source of the exceedance of the toxicity trigger (for instance, a temporary plant upset), then only one additional test is necessary. If exceedance of the toxicity trigger is detected in this test, the discharger will continue with accelerated monitoring requirements or implement the Toxicity Identification and Toxicity Reduction Evaluations.

¹ 3-Sample median is defined as follows: The middle value of 3 consecutive samples arranged from the low value to the high value.

If none of the three tests indicated exceedance of the toxicity trigger, then the permittee may return to the normal bioassay testing frequency.

D. Conducting Toxicity Identification Evaluations and Toxicity Reduction Evaluations

- 1. A Toxicity Identification Evaluation (TIE) shall be triggered if testing from the accelerated monitoring frequency indicates any of the following:
 - a. Two of the three accelerated chronic toxicity tests are reported as failed tests meeting any of the conditions specified in Attachment E, Section V.C; or
 - b. Two of the three acute toxicity tests are reported as failed tests meeting any of the conditions specified in Attachment E, Section V.C.
 - c. The TIE shall be initiated within 15 days following failure of the second accelerated monitoring test.
 - d. If a TIE is triggered prior to the completion of the accelerated testing, the accelerated testing schedule may be terminated, or used as necessary in performing the TIE.
- 2. The TIE shall be conducted to identify and evaluate toxicity in accordance with procedures recommended by the United States Environmental Protection Agency (USEPA) which include the following:
 - a. Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I, (USEPA, 1992a);
 - b. Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures, Second Edition (USEPA, 1991a);
 - c. Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Sampling Exhibiting Acute and Chronic Toxicity (USEPA, 1993a);
 - d. Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity (USEPA, 1993b);
- 3. As part of the TIE investigation, the Discharger shall be required to implement its Toxicity Reduction Evaluation (TRE) workplan. The Discharger shall take all reasonable steps to control toxicity once the source of the toxicity is identified. A failure to conduct required toxicity tests or a TRE within a designated period shall result in the establishment of numerical effluent limitations for chronic toxicity in a permit or appropriate enforcement action. Recommended guidance in conducting a TRE include the following:
 - Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, August 1999, EPA/833B-99/002;

b. Clarifications Regarding Toxicity Reduction and Identification Evaluations in the National Pollutant Discharge Elimination System Program dated March 27, 2001, USEPA Office of Wastewater Management, Office of Regulatory Enforcement.

E. Definition of Toxicity

- 1. Chronic toxicity measures sublethal effect (e.g., reduced growth, reproduction) to experimental test organisms exposed to an effluent or ambient waters compared to that of the control organisms.
- 2. Chronic toxicity shall be measured in TU_c , where $TU_c = 100/NOEC$. The no observed effect concentration (NOEC) is the highest concentration of toxicant to which organisms are exposed in a chronic test that causes no observable adverse effect on the test organisms (e.g., the highest concentration of toxicant to which the values for the observed responses are not statistically significantly different from the controls).
- 3. Acute toxicity is a measure of primarily lethal effects that occur over a ninety-six (96) hour period. Acute toxicity for <u>Pimephales promelas</u> can be calculated from the results of the chronic toxicity test for <u>Pimephales promelas</u> and reported along with the results of each chronic test. Acute toxicity for <u>Ceriodaphnia dubia</u> cannot be calculated from the results of the chronic toxicity test for <u>Ceriodaphnia dubia</u> because the test design is not amenable to calculation of a lethal concentration (LC50) value as needed for the acute requirement.
- 4. Acute toxicity shall be measured in Tu_a, where Tu_a = 100/LC50 or as pass/fail using a t-test. LC50 is the toxicant concentration that would cause death in 50 percent of the test organisms.

F. Reporting

- 1. The Discharger shall submit the analysis and results of the toxicity test, including any accelerated testing in toxicity units with the discharge monitoring reports for the month in which the last test is conducted.
- 2. If a Toxicity Identification Evaluation (TIE) is conducted the Discharger shall submit the results of the TIE with the discharge monitoring reports for the month in which the final report is completed.
- 3. If the Toxicity Reduction Evaluation (TRE) Workplan has been initiated, the Discharger shall report on the progress of the actions being taken and include this information with each monthly monitoring report.

VI. LAND DISCHARGE MONITORING REQUIREMENTS [NOT APPLICABLE]

VII. RECLAMATION MONITORING REQUIREMENTS [NOT APPLICABLE]

VIII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

A. Monitoring Location R-001

1. The Discharger shall monitor the Dolson Drain at R-001. In the event that no receiving water is present, no receiving water monitoring data is required for station R-001:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Temperature	°F	Grab	1x/Quarter	1
Dissolved Oxygen	mg/L	Grab	1x/Quarter	1
pH	pH units	Grab	1x/Quarter	
Hardness (as CaCO ₃)	mg/L	Grab	1x/Quarter	1

¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board.

B. Monitoring Location R-002

1. The Discharger shall monitor Dolson Drain at R-002. In the event that no receiving water is present, no receiving water monitoring data is required for station R-002:

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Temperature	°F	Grab	1x/Quarter	ı
Dissolved Oxygen	mg/L	Grab	1x/Quarter	i
pН	pH units	Grab	1x/Quarter	1
Hardness (as CaCO ₃)	mg/L	Grab	1x/Quarter	1

¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR sections 136; for priority pollutants the methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP, where no methods are specified for a given pollutant, by methods approved by this Regional Board or the State Board.

C. Visual Monitoring Upstream and Downstream Receiving Water Sampling Points

- 1. In conducting the receiving water sampling, a log shall be kept of the receiving water conditions at Stations R-001 and R-002. In the event that no receiving water is present, no receiving water monitoring data is required for station R-001 or R-002. Notes on receiving water conditions shall be summarized in the monitoring report. Attention shall be given to the presence or absence of:
 - a. Floating or suspended matter
 - b. Discoloration
 - c. Aquatic life (including plants, fish, shellfish, birds)
 - d. Visible film, sheen or coating
 - e. Fungi, slime, or objectionable growths
 - f. Potential nuisance conditions

IX. OTHER MONITORING REQUIREMENTS

A. Water Supply Monitoring

The Discharger is required to obtain or acquire source water data quarterly, either through monitoring or obtaining the data from the drinking water purveyor.

B. Monitoring Location S-001 Sludge Monitoring

1. Sludge that is generated at the treatment facility shall be sampled and analyzed for the following prior to disposal:

Constituent	Units	Sample Type	Minimum Sampling Frequency	Required Test Method
Arsenic	mg/kg	Grab	Annually	1
Cadmium	mg/kg	Grab	Annually	1
Copper	mg/kg	Grab	Annually	1
Lead	mg/kg	Grab	Annually	1
Mercury	mg/kg	Grab	Annually	1
Molybdenum	mg/kg	Grab	Annually	1
Nickel	mg/kg	Grab	Annually	1
Selenium	mg/kg	Grab	Annually	1
Zinc	mg/kg	Grab	Annually	1
Fecal Coliform	MPN/gram	Grab	Annually	1

¹ Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 503.

2. The Discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a quarterly summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination.

X. REPORTING REQUIREMENTS

A. General Monitoring and Reporting Requirements

- 1. The Discharger shall comply with all Standard Provisions (Attachment D) related to monitoring, reporting, and recordkeeping.
- 2. The Discharger shall report the results of acute and chronic toxicity testing, TRE and TIE as required in Attachment E, Whole Effluent Toxicity Testing Requirements, Section V.F.
- 3. The results of any analysis take, more frequently than required at the locations specified in this Monitoring and Reporting Program shall be reported to the Regional Board.

B. Self Monitoring Reports (SMRs)

- 1. At any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit self-monitoring reports in accordance with the requirements described below.
- 2. The Discharger shall submit monthly, quarterly, and annual Self Monitoring Reports including the results of all required monitoring using USEPA-approved test methods or other test methods specified in this Order. Monthly reports shall be due on the 1st day of the second month following the end of each calendar month; Quarterly reports shall be due on May 1, August 1, November 1, and February 1 following each calendar quarter; Annual reports shall be due on February 1 following each calendar year.
- 3. Monitoring periods and reporting for all required monitoring shall be completed according to the following schedule:

Sampling Frequency	Monitoring Period Begins On	Monitoring Period	SMR Due Date
Continuous	June 29, 2005	All	First day of second calendar month following month of sampling
X / day	June 29, 2005	(Midnight through 11:59 PM) or any 24-hour period that reasonably represents a calendar day for purposes of sampling.	First day of second calendar month following month of sampling
X / week	Sunday following June 29, 2005	Sunday through Saturday	First day of second calendar month following month of sampling
X / month	July 1 following June 29, 2005	1 st day of calendar month through last day of calendar month	First day of second calendar month following month of sampling
X / quarter	July 1 following June 29, 2005	January 1 through March 31 April 1 through June 30 July 1 through September 30 October 1 through December 31	May 1 August 1 November 1 February 1
X / year	January 1 following June 29, 2005 ¹	January 1 through December 31	February 1

- 1 On February 1, 2006, the Discharger will report the data collected for the period between June 29, 2005 and January 1, 2006.
 - 4. The Discharger shall report with each sample result the applicable Minimum Level (ML) and the current Method Detection Limit (MDL), as determined by the procedure in 40 CFR Part 136.
 - 5. The Discharger shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the facility is operating in compliance with interim and/or final effluent limitations.
 - 6. The Discharger shall attach a cover letter to the SMR. The information contained in the cover letter shall clearly identify violations of the WDRs; discuss corrective actions taken or planned; and the proposed time schedule for corrective actions. Identified violations must include a description of the requirement that was violated and a description of the violation.

7. SMRs must be submitted to the Regional Water Board, signed and certified as required by the standard provisions (Attachment D), to the address listed below:

Submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring, Suite 100
Palm Desert, CA 92260

C. Discharge Monitoring Reports (DMRs)

- 1. At any time during the term of this permit, the State or Regional Water Board may notify the Discharger to electronically submit self-monitoring reports. Until such notification is given, the Discharger shall submit discharge monitoring reports (DMRs) in accordance with the requirements described below.
- 2. DMRs must be signed and certified as required by the standard provisions (Attachment D). The Discharge shall submit the original DMR and one copy of the DMR to the address listed below:

Submit monitoring reports to:	
State Water Resources Control Board	
Discharge Monitoring Report Processing	Center
Post Office Box 671	
Sacramento, CA 95812	

3. All discharge monitoring results must be reported on the official USEPA pre-printed DMR forms (EPA Form 3320-1). Forms that are self-generated or modified cannot be accepted.

D. Other Reports

1. Annual Operation and Maintenance Report

The Discharger shall report the following:

Activity	Reporting Frequency
To inspect and document any operation/maintenance problems by inspecting each unit process. In addition, calibration of flow meters, cleaning of UV system and mechanical equipment shall be performed in a timely manner and documented.	Annually
The amount of any chemicals used (i.e., chlorine, etc.,)shall be monitored daily and reported monthly. Measured in pounds per day.	Monthly

Attachment F - Fact Sheet - Table of Contents

Attac	chment F – Fact Sheet	
I.	Permit Information	
II.	Facility Description	
	A. Description of Wastewater Treatment or Controls	4
	B. Discharge Points and Receiving Waters	
	C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data	4
	D. Compliance Summary	5
	E. Planned Changes (If Applicable)	6
III.	Applicable Plans, Policies, and Regulations	6
	A. Legal Authorities	
	B. California Environmental Quality Act (CEQA)	6
	C. State and Federal Regulations, Policies, and Plans	
	D. Impaired Water Bodies on CWA 303(d) List	
IV.	Rationale For Effluent Limitations and Discharge Specifications	8
	A. Discharge Prohibitions	
	B. Technology-Based Effluent Limitations	9
	1. Scope and Authority	
	2. Applicable Technology-Based Effluent Limitations	
	C. Water Quality-Based Effluent Limitations (WQBELs)	
	1. Scope and Authority	
	2. Applicable Beneficial Uses and Water Quality Criteria and Objectives	
	3. Determining the Need for WQBELs	
	4. WQBEL Calculations	
	5. Whole Effluent Toxicity (WET)	
	D. Final Effluent Limitations	
	E. Interim Effluent Limitations.	
	F. Land Discharge Specifications (IF APPLICABLE)	
	G. Reclamation Specifications (IF APPLICABLE)	
V.	Rationale for Receiving Water Limitations	
	A. Surface Water	
	B. Groundwater	
VI.	Monitoring and Reporting Requirements	
	A. Influent Monitoring	
	B. Effluent Monitoring	
	C. Whole Effluent Toxicity Testing Requirements	
	D. Receiving Water Monitoring	
	1. Surface Water	
	2. Groundwater (IF APPLICABLE)	
	E. Other Monitoring Requirements (IF APPLICABLE)	24
VII.	Rationale for Provisions.	
	A. Standard Provisions	
	B. Special Provisions	
	1. Re-Opener Provisions	
	2. Special Studies and Additional Monitoring Requirements	
	3. Best Management Practices and Pollution Prevention	
	-	

4	. Compliance Schedules	27
5	. Construction, Operation, and Maintenance Specifications	28
6	. Special Provisions for Municipal Facilities (POTWs Only)	28
VIII. Pul	olic Participation	28
A.	Notification of Interested Parties	28
B.	Written Comments	28
C.	Public Hearing	29
	Waste Discharge Requirements Petitions	
	Information and Copying	
	Register of Interested Persons	
	Additional Information	

ATTACHMENT F - FACT SHEET

As described in Section II of this Order, this Fact Sheet includes the legal requirements and technical rationale that serve as the basis for the requirements of this Order.

I. PERMIT INFORMATION

The following table summarizes administrative information related to the facility.

WDID	7A130106011
Discharger	City of Imperial
Name of Facility	City of Imperial Water Pollution Control Plant
	701 East 14 th Street
Facility Address	Imperial, CA 92251
	Imperial County
Facility Contact, Title and	Jackie Loper, Director of Community Development, (760) 355-4371
Phone	
Authorized Person to Sign and Submit Reports	Vincent Long, City Manager, (760) 355-4371
Mailing Address	420 So. Imperial Avenue, Imperial, CA 92251
Billing Address	SAME
Type of Facility	POTW
Major or Minor Facility	Major
Threat to Water Quality	2
Complexity	A
Pretreatment Program	N
Reclamation Requirements	None
Facility Permitted Flow	1.4 mgd
Facility Design Flow	1.4 mgd
Watershed	West Colorado River Basin
Receiving Water	Dolson Drain
Receiving Water Type	Agricultural Drain

- A. The City of Imperial is the operator of the City of Imperial Water Pollution Control Plant, a publicly owned treatment works facility. The City of Imperial owns the property at 701 East 14th Street, Imperial, CA 92251 on which the Facility is located. Together the City of Imperial and the City of Imperial Water Pollution Control Plant are hereinafter referred to as Discharger.
- **B.** The Facility discharges wastewater to Dolson Drain, a water of the United States and is currently regulated by Order No. 00-040 which was adopted on June 28, 2000 and expires on June 28, 2005.
- C. The Discharger filed a report of waste discharge and submitted an application for renewal of its Waste Discharge Requirements (WDRs) and National Pollutant Discharge Elimination System (NPDES) permit on December 10, 2004. A site visit was conducted on December 6, 2004, to observe operations and collect additional data to develop permit limitations and conditions.

II. FACILITY DESCRIPTION

A. Description of Wastewater and Biosolids Treatment or Controls

- 1. The City of Imperial owns and operates the wastewater collection, treatment and disposal system (hereinafter referred to as facility) and provides sewerage service to the City of Imperial. The current wastewater treatment plant has a treatment capacity of 1.4 million gallons-per-day (MGD) and is located in Section 7, T15S, R14E, SBB&M.
- 2. The wastewater treatment plant consists of an influent pump station, grit chamber, two parallel oxidation ditches, two secondary clarifiers, an ultraviolet disinfection system, and sludge drying beds. Wastewater is discharged from Discharge 001 to the Dolson Drain, a water of the United States.
- 3. Waste Activated Sludge (WAS) pumped from the activated sludge treatment system is routed to sludge drying beds. After complete drying, the sludge is disposed of by a contractor.
- 4. The Discharger owns and operates the wastewater collection system which provides conveyance of raw wastewater to the treatment facility. The collection system is a separate sanitary sewer system, and the facility experiences less than 0.01 MGD of inflow and/or infiltration on average into its system.

B. Discharge Points and Receiving Waters

- 1. The final effluent is discharged to the Dolson Drain. The Dolson Drain conveys the effluent to the Salton Sea via the Lilac Drain, Rose Drain, and Alamo River. The permitted maximum daily flow limitation is equal to the facility's current design capacity of the wastewater treatment plant as 1.4 mgd.
- 2. The discharge consists of secondary treated domestic wastewater.

C. Summary of Existing Requirements and Self-Monitoring Report (SMR) Data

1. Effluent limitations contained in the previous Order 00-040 for discharges from the activated sludge treatment system, **Discharge Point 001** (Monitoring Location **M-001**) and representative monitoring data from the term of the previous Order are as follows:

Parameter (units)	r Effluent Limitation		Monitoring Data (From June 2000 – To August 2004)			
	Average Monthly	Average Weekly	Maximum Daily	Maximum Average Monthly Discharge	Maximum Average Weekly Discharge	Maximum Daily Discharge
Discharge Flow (mgd)			1.4	0.84		1.6
BOD (mg/L)	30	45		10.3	10.3	
TSS (mg/L)	30	45		20.5	20.5	
Settleable Matter (ml/L)	0.3	0.5		0.1	0.1	
pH (ph units)			6.0 – 9.0			7.9 ¹
Percent Removal, BOD (%)	85			89.6 ²		

Parameter (units)	E	ffluent Limitat	ion	,	Monitoring Dat ne 2000 – To Au	
	Average Monthly	Average Weekly	Maximum Daily	Maximum Average Monthly Discharge	Maximum Average Weekly Discharge	Maximum Daily Discharge
Percent Removal, TSS (%)	85			82.5 ²		

¹ This represents the range of reported values of pH.

2. The National Pollutant Elimination System Permit application described the effluent characteristics as follows:

Constituent	Treatment System
pH Maximum Daily (Minimum)	7.0 pH Units
pH Maximum Daily (Maximum)	7.3 pH Units
Flow Rate Maximum Daily	0.94 mgd
Flow Rate Average Daily	0.78 mgd
BOD Maximum Daily	16.0 mg/L
BOD Average Daily	4.3 mg/L
Total Suspended Solids Maximum Daily	31.9 mg/L
Total Suspended Solids Average Daily	7.6 mg/L
Temperature Maximum Daily (Winter/Summer)	72°F/82°F
Temperature Average Daily (Winter/Summer)	67°F/78°F
Fecal Coliform Maximum Daily	
Fecal Coliform Average Daily	

D. Compliance Summary

Based on a review of effluent monitoring data submitted by the Discharger for the period from June 2000 through August 2004, the wastewater discharged from the wastewater treatment facility was in chronic violation of effluent limitations for escherichia coli established in Order No. 00-040 for the treatment systems. The Regional Board issued an Administrative Civil Liability (ACL), No. R7-2004-0015, on March 30, 2004.

On May 1, 2003, the Regional Board issued an Administrative Civil Liability Complaint (ACLC) No. R7-2003-0022 proposing the Discharger pay \$48,000 in civil liability for effluent violations. The above referenced ACLC was rescinded on June 5, 2003 to allow the Discharger to propose an acceptable Compliance Project (CP). On June 24, 2003, the Discharger proposed contracting with an engineering firm to review the Discharger's treatment system and recommend alterations to bring the discharge into compliance with effluent limitations. This was incorporated into ACL No. R7-2004-0015.

² This value represents the lowest reported value of the minimum percent removal of the pollutant. For BOD, the Discharger violated the minimum percent removal requirement 0 times. For TSS, the Discharger violated the minimum percent removal requirement 2 times.

E. Planned Changes - Not Applicable

III. APPLICABLE PLANS, POLICIES, AND REGULATIONS

The requirements contained in the proposed Order are based on the requirements and authorities described in this section.

A. Legal Authorities

This Order is issued pursuant to section 402 of the Federal Clean Water Act (CWA) and implementing regulations adopted by the U.S. Environmental Protection Agency (USEPA) and Chapter 5.5, Division 7 of the California Water Code (CWC). It shall serve as a NPDES permit for point source discharges from this facility to surface waters. This Order also serves as Waste Discharge Requirements (WDRs) pursuant to Article 4, Chapter 4 of the CWC for discharges that are not subject to regulation under CWA section 402.

B. California Environmental Quality Act (CEQA)

This action to adopt an NPDES permit is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21100, et seq.) in accordance with Section 13389 of the CWC.

C. State and Federal Regulations, Policies, and Plans

1. Water Quality Control Plans. Basin Plan designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. Beneficial uses applicable to Dolson Drain, a part of the Imperial Valley Drains, are as follows:

Discharge Point	Receiving Water Name	Beneficial Use(s)
001	Dolson Drain	Existing:
	(Imperial Valley Drains)	Freshwater replenishment (FRESH), Water Contact Recreation (REC I) ^{1,2} , non-contact water recreation (REC-2) ¹ , warm freshwater habitat (WARM); wildlife habitat (WILD), Preservation of Rare, Threatened or Endangered Species (RARE) ³ .

2. Thermal Plan. The Thermal Plan does not apply to the Dolson Drain.

² The only REC1 usage that is known to occur is from infrequent fishing activity.

¹ Unauthorized Use.

Rare, endangered, or threatened wildlife exists in or utilizes some of these waterway(s). If the RARE beneficial use may be affected by a water quality control decision, responsibility for substantiation of the existence of rare, endangered, or threatened species on a case-by-case basis is upon the California Department of Fish and Game on its own initiative and/or at the request of the Regional Board; and such substantiation must be provided within a reasonable time frame as approved by the Regional Board.

- 3. National Toxics Rule (NTR) and California Toxics Rule (CTR). USEPA adopted the NTR on December 22, 1992, which was amended on May 4, 1995 and November 9, 1999, and the CTR on May 18, 2000, which was amended on February 13, 2001. These rules include water quality criteria for priority pollutants and are applicable to this discharge.
- 4. State Implementation Policy. On March 2, 2000, State Water Board adopted the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California (State Implementation Policy or SIP). The SIP became effective on April 28, 2000, with respect to the priority pollutant criteria promulgated for California by the USEPA through the NTR and to the priority pollutant objectives established by the Regional Water Boards in their basin plans, with the exception of the provision on alternate test procedures for individual discharges that have been approved by USEPA Regional Administrator. The alternate test procedures provision was effective on May 22, 2000. The SIP became effective on May 18, 2000. The SIP includes procedures for determining the need for and calculating water quality-based effluent limitations (WOBELs), and requires Dischargers to submit data sufficient to do so.
- 5. Antidegradation Policy. Section 131.12 of 40 CFR requires that State water quality standards include an antidegradation policy consistent with the federal policy. The State Water Board established California's antidegradation policy in State Water Board Resolution 68-16, which incorporates the requirements of the federal antidegradation policy. Resolution 68-16 requires that existing water quality is maintained unless degradation is justified based on specific findings. The permitted discharge is consistent with the antidegradation provision of 40 CFR §131.12 and State Water Board Resolution 68-16.
- 6. Anti-Backsliding Requirements. Sections 402(o)(2) and 303(d)(4) of the CWA and 40 CFR §122.44(l) prohibit backsliding in NPDES permits. These anti-backsliding provisions require that effluent limitations in a reissued permit must be as stringent as those in the previous permit, with some exceptions in which limitations may be relaxed. All effluent limitations in the Order are at least as stringent as the effluent limitations in the previous Order.
- 7. Monitoring and Reporting Requirements. Section 122.48 of 40 CFR requires that all NPDES permits specify requirements for recording and reporting monitoring results. Sections 13267 and 13383 of the CWC authorize the Regional Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement federal and State requirements. This MRP is provided in Attachment E.

8. Storm Water Requirements

a. Federal regulations for storm water discharges were promulgated by the United States Environmental Protection Agency (USEPA) (40 CFR Parts 122, 123, and 124). The regulations require specific categories of facilities which discharge storm water associated with industrial activity to obtain National Pollutant Discharge Elimination System (NPDES) permits and to implement Best Conventional Pollutant Technology

- (BCT)) and Best Available Technology Economically Achievable (BAT) to reduce or eliminate industrial storm water pollution.
- b. The State Water Resources Control Board (SWRCB) adopted Order No. 97-03-DWQ (General Permit No. CAS00001), specifying waste discharge requirements for discharges of storm water associated with industrial activities, excluding construction activities, and requiring submittal of a Notice of Intent by industries to be covered under the Permit. Coverage under the General Permit is not required because there are no storm water flows from the facility.

D. Impaired Water Bodies on CWA 303(d) List

Section 303(d) of the CWA requires states to identify specific water bodies where water quality standards are not expected to be met after implementation of technology-based effluent limitations on point sources. For all 303(d)-listed water bodies and pollutants, the Regional Board plans to develop and adopt total maximum daily loads (TMDLs) that will specify waste load allocations (WLAs) for point sources and load allocations (LAs) for non-point sources, as appropriate. USEPA approved the State's 2002 303(d) list of impaired water bodies on July 25, 2003.

The final effluent from the facility is discharged through Discharge Point 001 to Dolson Drain, which is a part of Imperial Valley Drains and drains into the Alamo River and ultimately the Salton Sea. The Imperial Valley Drains has been classified as impaired on the 2002 303(d) list and has been scheduled for TMDL development. According to the 2002 303(d) list, the Imperial Valley Drains are impaired for sedimentation/silt pesticides, and selenium. A TMDL for sedimentation/siltation was approved by USEPA in June 2002. To date no TMDL has been completed for pesticides or selenium.

The sedimentation/siltation TMDL establishes a numeric target of an annual average in-stream TSS concentration of 200 mg/L. In assigning the waste load allocation (WLA), the TDML assigned a WLA to the City of Imperial of 127.9 tons per year of suspended solids based on a TSS effluent limit equal to double the TSS effluent limits contained in the City's NPDES permit. The TSS effluent limits equal to the secondary effluent standards as specified in 40 CFR 133 for TSS of 30 mg/L as a monthly average and 45 mg/L as a weekly average are applied to this discharge. If the Discharger were to discharge at its maximum design flow rate of 1.4 mgd every day for a year at a concentration equal to the maximum weekly limit, the facility would not exceed the WLA of 127.9 tons per year of sediment. The limits established in this Order adequately implement the requirements of the TMDL.

E. Other Plans, Polices and Regulations – Not Applicable

IV. RATIONALE FOR EFFLUENT LIMITATIONS AND DISCHARGE SPECIFICATIONS

The CWA requires point source discharges to control the amount of conventional, nonconventional, and toxic pollutants that are discharged into the waters of the United States. The control of the discharge of pollutants is established through effluent limitations and other requirements in NPDES permits. There are two principal bases for effluent limitations. Section 122.44(a) of 40 CFR requires that permits include applicable technology-based limitations and standards. Section 122.44(d) of 40 CFR requires that permits include water quality-based effluent limitations to attain and maintain

applicable numeric and narrative water quality criteria to protect the beneficial uses of the receiving water. Where numeric water quality objectives have not been established, 40 CFR §122.44(d) specifies that WQBELs may be established using USEPA criteria guidance under CWA section 304(a); proposed State criteria or a State policy interpreting narrative criteria supplemented with other relevant information; or an indicator parameter.

Effluent and receiving water limitations in this Board Order are based on the Federal Clean Water Act, Basin Plan, State Water Resources Control Board's plans and policies, U. S. Environmental Protection Agency guidance and regulations, and best practicable waste treatment technology. While developing effluent limitations and receiving water limitations, monitoring requirements, and special conditions for the draft permit, the following information sources were used:

- 1. EPA NPDES Application Forms 1 and 2A dated December 10, 2004.
- 2. Code of Federal Regulations Title 40
- 3. Water Quality Control Plan (Colorado River Basin Region 7) as amended to date.
- 4. Regional Board files related to City of Imperial WWTP NPDES permit CA0104400.

A. Discharge Prohibitions

The discharge prohibitions are based on the requirements of the Basin Plan, CWC, and previous permit provisions, and are consistent with the requirements set for other discharges regulated by NPDES permit to the Imperial Valley Drains.

B. Technology-Based Effluent Limitations

Effluent and receiving water limitations in this Board Order are based on the federal CWA, Basin Plan, State Board's plans and policies, U. S. EPA guidance and regulations, and best practicable waste treatment technology.

1. Scope and Authority

Secondary Treatment Standards. Regulations promulgated in 40 CFR §125.3(a)(1) require technology-based effluent limitations for municipal Dischargers to be placed in NPDES permits based on Secondary Treatment Standards or Equivalent to Secondary Treatment Standards.

The Federal Water Pollution Control Act Amendments of 1972 (PL 92-500) established the minimum performance requirements for POTWs [defined in Section 304(d)(1)]. Section 301(b)(1)(B) of that Act requires that such treatment works must, as a minimum, meet effluent limitations based on secondary treatment as defined by the USEPA Administrator.

Based on this statutory requirement, USEPA developed secondary treatment regulations, which are specified in 40 CFR 133. These technology-based regulations apply to all municipal wastewater treatment plants and identify the minimum level of effluent quality attainable by secondary treatment in terms of biochemical oxygen demand (BOD₅), total suspended solids (TSS), and pH.

2. Applicable Technology-Based Effluent Limitations

a. This facility meets the technology-based regulations for the minimum level of effluent quality attainable by secondary treatment in terms of biochemical oxygen demand (BOD₅), SS, and pH as summarized in Table F-1. Previous Order 00-040 established technology-based effluent limits to meet applicable secondary treatment standards. These effluent limitations have been carried over from the previous Order.

b. Basis for Limitations

Constituents	Basis for Limitations
Biochemical Oxygen Demand (BOD)	Discharges to waters that support aquatic life, that is dependent on oxygen. Organic matter in the discharge may consume oxygen as it breaks down.
Total Suspended Solids (TSS)	High levels of suspended solids can adversely impact aquatic habitat. Untreated or improperly treated wastewater can contain high amounts of suspended solids.
Hydrogen Ion (pH)	Hydrogen Ion (pH) is a measure of Hydrogen Ion concentration in the water. A range specified between 6 to 9 ensures suitability of biological life. This limitation has been adopted in the Basin Plan of the Region.

Table F-1
Summary of Technology-based Effluent Limitations for Secondary Treatment Standards
Discharge Point 001 at Monitoring Location M-001

				Effluent Limitations		
Parameter	Units	Average Monthly	Average Monthly Average Weekly Maximum Daily	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum
Flow	mgd	1.4				
Biochemical Oxygen	mg/L	30	45	-		-
Demand 5-day @ 20°C	lbs/day	350	526	-	-	
Total Suspended	mg/L	30	45	•	-	Γ
Solids	lbs/day	350	526	-	***	-
Hd	standard units		1	-	6.0	9.6

C. Water Quality-Based Effluent Limitations (WQBELs)

1. Scope and Authority

- a. Effluent discharged from this facility could contain pollutants in sufficient quantities to affect receiving water quality. Pursuant to Section 13263, Article 4, Chapter 4 of the Porter Cologne Water Quality Control Act, the Regional Boards are required to issue Waste Discharge Requirements for discharges that could affect the quality of the State's waters. Furthermore, Federal Regulation 40 CFR 122.1 requires the issuance of NPDES permits for pollutants discharged from a point source to the waters of the United States.
- b. The U.S. Environmental Protection Agency published the adopted California Toxics Rule (CTR) (40 CFR §131.38). The CTR promulgates new criteria for both human health protection and protection of aquatic life. New numeric aquatic life criteria for 23 priority toxic pollutants and numeric human health criteria for 57 priority toxic pollutants are listed. In addition, the CTR contains a compliance schedule provision, which authorizes the State to issue schedules of compliance for new or revised NPDES permit limits based on the federal criteria when certain conditions are met.

2. Applicable Beneficial Uses and Water Quality Criteria and Objectives

Table F-2 summarizes the applicable water quality criteria/objective for priority pollutants reported in detectable concentrations in the effluent or receiving water. These criteria were used in conducting the Reasonable Potential Analysis for this Order.

Table F-2 Water Quality Criteria Dolson Drain

			CTR/NTR Water Quality Criteria							
			Freshwater		Saltwater		Human Health for Consumption of:			
CTR		Selected Criteria	Acute	Chronic	Acute	Chronic	Water & Organisms	Organisms only		
No.	Constituent	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L		
1	Antimony	4,300						4,300		
10	Selenium	5	20	5	290.58	71.14				
12	Thallium	6.3						6.3		
13	Zinc	85.62	387.83	387.83	95.14	85.62		•-		

3. Determining the Need for WQBELs

In accordance with Section 1.3 of the SIP, the Regional Board conducted a reasonable potential analysis (RPA) for each priority pollutant with an applicable criterion or objective to determine if a WQBEL is required in the Order. The Regional Board analyzed effluent and receiving water data to determine if a pollutant in a discharge has the reasonable potential to cause or contribute to an excursion above a state water quality standard. For all parameters that have the reasonable potential to cause or contribute to an excursion above a water quality standard, numeric WQBELs are required. The RPA considers criteria from the CTR and NTR, and when applicable, water quality objectives specified in the Basin Plan. To conduct the RPA, the Regional Board identified the maximum observed concentration influent to the pond (MEC) and maximum background concentration (B) in the receiving water for each constituent, based on data provided by the Discharger.

Section 1.3 of the SIP provides the procedures for determining reasonable potential to exceed applicable water quality criteria and objectives. The SIP specifies three triggers to complete a RPA:

- 1) <u>Trigger 1</u> If the MEC is greater than or equal to the CTR water quality criteria or applicable objective (C), a limit is needed.
- 2) $\underline{\text{Trigger 2}}$ If MEC<C and background water quality (B) > C, a limit is needed.
- 3) <u>Trigger 3</u> If other related information such as CWA 303(d) listing for a pollutant, discharge type, compliance history, etc. indicates that a WQBEL is required.

Sufficient data are needed to conduct a complete RPA. If data are not sufficient, the Discharger will be required to gather the appropriate data for the Regional Board to conduct the RPA. Upon review of the data, and if the Regional Board determines that WQBELs are needed to protect the beneficial uses, the permit will be reopened for appropriate modification.

The RPA was performed for the priority pollutants for which effluent data were available. These data were used in the RPA and are summarized in Table F-3.

Table F-3
Summary Reasonable Potential Analysis

CTR No.	Priority Pollutant Name	Applicable Water Quality Criteria Maximum Effluent Concentration (C) (MEC)		Maximum Receiving Water Concentration	RPA Result - Need	Reason
		(C)	(MEC)	(B)	Limit?	
-		μg/L	μg/L	μg/L	131111114.	
1	Antimony	4,300	8	Not Available	No	MEC <c< td=""></c<>
10	Selenium	5	11	Not Available	Yes	MEC>C
12	Thallium	6.3	16	Not Available	Yes	MEC>C
13	Zinc	85.62	69	Not Available	No	MEC <c< td=""></c<>

4. WQBEL Calculations

a. Water quality based effluent limits (final) are based on monitoring results and following the calculation process outlined in Section 1.4 of the California Toxic Rule and the Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays and Estuaries of California. Table F-4 summarizes the final WQBELs for this Order using the process described below.

b. WQBELS Calculation Example

Using selenium as an example, the following demonstrates how water quality based effluent limits were established for this Order. The process for developing these limits is in accordance with Section 1.4 of the SIP. Attachment G summarizes the development and calculation of all water quality-based effluent limitations for this Order using the process described below.

Step 1: For each constituent requiring an effluent limit, identify the applicable water quality criteria or objective. For each criterion determine the effluent concentration allowance (ECA) using the following steady state equation:

ECA = C + D(C-B) when C>B, and ECA = C When C#B,

Where

C = The priority pollutant criterion/objective, adjusted if necessary for hardness, pH and translators. In this Order a hardness value of 400 mg/L (as CaCO₃) was used for development of hardness-dependant criteria, and a pH of 7.2 was used for pH-dependant criteria.

D = The dilution credit, and

B = The ambient background concentration

As discussed below, for this Order, dilution was not allowed; therefore:

ECA = C

For selenium the applicable water quality criteria are (reference Table F-2):

ECA_{acute}= 20.00 μg/L ECA_{chronic}= 5.00 μg/L ECA_{human health}= Narrative

Step 2: For each ECA based on aquatic life criterion/objective, determine the long-term average discharge condition (LTA) by multiplying the ECA by a factor (multiplier). The multiplier is a statistically based factor that adjusts the ECA to account for effluent variability. The value of the multiplier varies depending on the coefficient of variation (CV) of the data set and whether it is an acute or chronic criterion/objective. Table 1 of the SIP provides pre-calculated values for the multipliers based on the value of the CV. Equations to develop the multipliers in place of using values in the tables are provided in Section 1.4, Step 3 of the SIP and will not be repeated here.

 $LTA_{acute} = ECA_{acute} \times Multiplier_{acute}$

LTA_{chronic}= ECA_{chronic} x Multiplier_{chronic}

The CV for the data set must be determined before the multipliers can be selected and will vary depending on the number of samples and the standard deviation of a data set. If the data set is less than 10 samples, or at least 80% of the samples in the data set are reported as non-detect, the CV shall be set equal to 0.6.

For selenium, the following data was used to develop the acute and chronic LTA using Table 1 of the SIP:

No. of	CV	<u>Multiplier_{acute}</u>	<u>Multiplier_{chronic}</u>
Samples			
4	0.6	0.321	0.527

 $LTA_{acute} = 20.00 \mu g/L \times 0.321 = 6.42 \mu g/L$

 $LTA_{chronic} = 5.00 \mu g/L \times 0.527 = 2.64 \mu g/L$

Step 3: Select the most limiting (lowest) of the LTA.

LTA = most limiting of LTA_{acute} or LTA_{chronic}

For selenium, the most limiting LTA was the LTA_{chronic}

 $LTA = 2.64 \mu g/L$

Step 4: Calculate the water quality based effluent limits by multiplying the LTA by a factor (multiplier). Water quality-based effluent limits are expressed as Average Monthly Effluent Limitations (AMEL) and Maximum Daily Effluent Limitation (MDEL). The multiplier is a statistically based factor that adjusts the LTA for the averaging periods and exceedance frequencies of the criteria/objectives and the effluent limitations. The value of the multiplier varies depending on the probability basis, the coefficient of variation (CV) of the data set, the number of samples (for AMEL) and whether it is monthly or daily limit. Table 2 of the SIP provides pre-calculated values for the multipliers based on the value of the CV and the number of samples. Equations to develop the multipliers in place of using values in the tables are provided in Section 1.4, Step 5 of the SIP and will not be repeated here.

AMEL_{aquatic life} = LTA x AMEL_{multiplier}

MDEL_{aquatic life} = LTA x MDEL_{multiplier}

AMEL multipliers are based on a 95th percentile occurrence probability, and the MDEL multipliers are based on the 99th percentile occurrence probability. If the number of samples is less than four (4), the default number of samples to be used is four (4).

For selenium, the following data was used to develop the AMEL and MDEL for aquatic life using Table 2 of the SIP:

 $AMEL_{aquatic life} = 2.64 \times 1.55 = 4.1 \mu g/L$

 $MDEL_{aquatic life} = 2.64 \times 3.11 = 8.2 \mu g/L$

Step 5: For the ECA based on human health, set the AMEL equal to the ECA_{human health} - Note: The following approach is not applicable for selenium but it was used for calculating the WQBEL for thallium

 $AMEL_{human health} = ECA_{human health}$

Step 6: Calculate the MDEL for human health by multiplying the AMEL by the ratio of the Multiplier_{MDEL} to the Multiplier_{AMEL}. Table 2 of the SIP provides pre-calculated ratios to be used in this calculation based on the CV and the number of samples.

 $MDEL_{human \ health} = AMEL_{human \ health} \ x \ (Multiplier_{MDEL} / Multiplier_{AMEL})$

No. of Samples CV <u>Multiplier_{MDEL}</u> <u>Multiplier_{AMEL}</u> <u>Ratio</u>
4 0.60 3.11 1.55 2.01

 $MDEL_{human health} = Criteria \times 2.01$

Step 7: Select the lower of the AMEL and MDEL based on aquatic life and human health as the water-quality based effluent limit for the Order.

For selenium:

AMEL aquatic life	MDEL _{aquatic life}	AMEL human health	MDEL _{human health}
4.1 μg/L	8.2 μg/L	NA	NA

The lowest (most restrictive) effluent limits are based on aquatic toxicity and were incorporated into this Order. These limits will be protective of aquatic life.

5. WQBEL Based on Basin Plan Objectives

The Basin Plan states that any discharge to a waterbody with a REC1 designated use shall not have an Escherichia coli (E. coli) concentration in excess of a log mean of Most Probable Number (MPN) of 126 MPN per 100 milliliters (based on a minimum of not less than five samples for any 30-day period) nor shall any sample exceed 400 MPN per 100 milliliters. Effluent limitations for E.coli are incorporated in this Order. In addition, the Basin Plan contains receiving water limitations for enterococci and fecal coliform. E.coli is an indicator parameter for enterococci and fecal coliform. Therefore, effluent limitations for enterococci and fecal coliform are not included in the Order.

The Basin Plan requires all waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, 96-hour bioassay or bioassays of appropriate duration or other appropriate methods as specified by the Regional Board. This Order establishes narrative toxicity limitations to comply with this requirement.

In addition, the Basin Plan states that any discharge to Imperial Valley Drains have a total dissolved solids (TDS) daily maximum limit of 4,500 mg/L and an annual average TDS limit of 4,000 mg/L. Effluent limits for TDS are included in this Order.

6. Final WQBELs

Summaries of the water quality effluent limitations required by this Order are described in Table F-4 below.

Table F-4
Summary of Water Quality-based Effluent Limitations
Monitoring Location M-001

Constituent	Units	Effluent Limitations		
Constituent	Units	Average Monthly	Maximum Daily	
Selenium	μg/L	4.09	8.21	
Thallium	μg/L	6.30	12.64	

Wastewater effluent discharged to Dolson Drain shall not have a Escherichia coli (E.coli) concentration in excess of a log mean of Most Probable Number (MPN) of 126 MPN per 100 milliliters (based on a minimum of not less than five samples for any 30-day period) nor shall any sample exceed 400 MPN per 100 milliliters.

Wastewater effluent discharged to Dolson Drain shall not have a daily maximum TDS concentration in excess of 4,500 mg/L and an annual average concentration in excess of 4,000 mg/L.

There shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute or chronic toxicity in the receiving water. All waters shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological responses in human, plant, animal, or indigenous aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth anomalies, or bioassays of appropriate duration or other appropriate methods specified by the Regional Board.

7. Whole Effluent Toxicity (WET)

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. WET tests measure the degree of response of exposed aquatic test organisms to an effluent. The WET approach allows for protection of the narrative "no toxics in toxic amounts" criterion while implementing numeric criteria for toxicity. There are two types of WET tests: acute and chronic. An acute toxicity test is conducted over a shorter time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

The Basin Plan specifies a narrative objective for toxicity, requiring that all waters be maintained free of toxic substances in concentrations that are lethal to or produce other detrimental response on aquatic organisms. Detrimental response includes but is not limited to decreased growth rate, decreased reproductive success of resident or indicator species, and/or significant alterations in population, community ecology, or receiving water biota.

In addition to the Basin Plan requirements, Section 4 of the SIP states that a chronic toxicity effluent limitation is required in permits for all discharges that will cause, have the reasonable potential to cause, or contribute to chronic toxicity in receiving waters. Therefore, in accordance with the SIP, this Order requires the Discharger to conduct chronic toxicity testing for discharges to Dolson Drain. In addition, the Order establishes thresholds that when exceeded requires the Discharger to conduct accelerated toxicity testing and/or conduct toxicity identification evaluation (TIE) studies.

D. Final Effluent Limitations

Summaries of the water quality effluent limitations required by this Order are described in Table F-5 and the text below.

Proposed effluent limitations are based on secondary treatment standards, and equivalent to secondary treatment standards, CTR, Basin Plan, and effluent limitations established in the previous Order.

Table F-5
Summary of Final Effluent Limitations
Discharge Point 001 at Monitoring Location M-001

				Effluent Limitations	ons		
Parameter	Units	Average Monthly	Average Weekly	Maximum Daily	Instantaneous Minimum	Instantaneous Maximum	Basis
Flow	pßm	1.4					
Biochemical	mg/L	30	45		•	1	40 CER 133
Oxygen Demand 5-day @ 20°C	lbs/day	350	526		1	1	CCI VI TO OF
Total Suspended	mg/L	30	45	1		-	200 01
Solids	lbs/day	350	526	-	-	1	40 CFK 133
Total Dissolved	mg/L	-	1	4,500	•	•	40 CFR 133
Solids	lbs/day	ı		52,542	-	-	
BOD Percent Removal	%	> / = 85	-	1	1	1	40 CFR 133
TSS Percent Removal	%	> / = 85	-	ı	-	ı	40 CFR 133
Hd	standard units	-		1	6.0	9.0	Basin Plan
C. 1	μg/L	4.1		8.2	-	ë 5	CTP STP
Selcinuin	lbs/day	0.05		0.10		1	C11%, 244
11	µg/L	6.3	-	12.6	1		CTP STP
ınamum	lbs/day	0.07	-	0.15	-	1	C11X, 51

¹ Limitations are applicable after June 29, 2009. The interim limitations establish in Section IV.A.2 are applicable from June 29, 2005 through June 29, 2009.

The annual average concentration of total dissolved solids (TDS) in the discharge of wastewater shall be limited to 4,000 ن.

mean of Most Probable Number (MPN) of 126 MPN per 100 milliliters (based on a minimum of not less than five samples for Wastewater effluent discharged to Dolson Drain shall not have a Escherichia coli (E. coli) concentration in excess of a log any calendar month) nor shall any sample exceed 400 MPN per 100 milliliters ပ

There shall be no acute or chronic toxicity in the treatment plant effluent nor shall the treatment plant effluent cause any acute indicator organisms, analyses of species diversity, population density, growth anomalies, or bioassays of appropriate duration shall be maintained free of toxic substances in concentrations which are toxic to, or which produce detrimental physiological or chronic toxicity in the receiving water, as defined in the Monitoring and Reporting Program (Attachment E). All waters responses in human, plant, animal, or indigenous aquatic life. Compliance with this objective will be determined by use of or other appropriate methods specified by the Regional Board. j

E. Interim Effluent Limitations

The Discharger may not be able to consistently comply with the new effluent limitations for selenium and thallium. Therefore, interim limits have been set as follows:

- 1. The governing Water Quality Criteria (WQC) for selenium is 5 μg/L, the freshwater aquatic life criteria contained in the CTR. Selenium has reasonable potential to exceed water quality objectives, and final WQBELs are required. The WQBELs calculated pursuant to SIP procedures are 4.09 μg/L average monthly and 8.21 μg/L maximum daily. The Discharger indicated in its March 16, 2005 Feasibility Study that it is infeasible to comply immediately with the WQBELs. Therefore, pursuant to the provisions of the SIP, interim effluent limits for selenium are required. The previous permit did not contain an effluent limit for selenium, and it is not possible to statistically determine current plant performance based on seven data points. Therefore, the interim effluent limit is the Maximum Effluent Concentration (MEC), 11 μg/L for both the monthly average and daily maximum interim limit. These interim effluent limits are based on the best professional judgment of Regional Board staff.
- 2. The governing WQC for thallium is 6.3 μg/L, the human health criteria for the consumption of organisms contained in the CTR Thallium has reasonable potential to exceed water quality objectives, and final WQBELs are required. The WQBELs calculated pursuant to SIP procedures are 6.3 μg/L and 12.64 μg/L maximum daily. The Discharger indicated in its March 16, 2005 Feasibility Study that it is infeasible to comply immediately with the WQBELs. Therefore, pursuant to the provisions of the SIP, interim effluent limits for thallium are required. The previous permit did not contain an effluent limit for thallium, and it is not possible to statistically determine current plant performance based on seven data points. Therefore, the interim effluent limit is the MEC, 16 μg/L for both the monthly average and daily maximum interim limit. These interim effluent limits are based on the best professional judgment of Regional Board staff.

Constituents	Unit	Date Effluent Limit Becomes Effective	Average Monthly Effluent Limit	Maximum Daily Effluent Limit
Selenium (interim)	μg/L	June 29, 2005	11	11
Selenium (final)	μg/L	June 29, 2009	4.1	8.2
Thallium (interim)	μg/L	June 29, 2005	16	16
Thallium (final)	μg/L	June 29, 2009	6.3	12.6

- F. Land Discharge Specifications (Not Applicable)
- G. Reclamation Specifications (Not Applicable)

V. RATIONALE FOR RECEIVING WATER LIMITATIONS

A. Surface Water

The surface water receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan. As such, they are a required part of the proposed Order.

B. Groundwater

The groundwater receiving water limitations in the proposed Order are based upon the water quality objectives contained in the Basin Plan. As such, they are a required part of the proposed Order.

VI. RATIONALE FOR MONITORING AND REPORTING REQUIREMENTS

Section 122.48 of 40 CFR requires all NPDES permits to specify recording and reporting of monitoring results. Sections 13267 and 13383 of the California Water Code authorize the Water Boards to require technical and monitoring reports. The Monitoring and Reporting Program, Attachment E of this Order, establishes monitoring and reporting requirements to implement federal and state requirements. The following provides the rationale for the monitoring and reporting requirements contained in the Monitoring and Reporting Program for this facility.

A. Influent Monitoring

This Order carries forward the treatment plant influent monitoring requirements without change.

B. Effluent Monitoring

Monitoring for those pollutants expected to be present in the discharge from the treatment system, M-001, will be required as shown on the proposed monitoring and reporting program (Attachment E) and as required in the "Policy for Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California" adopted March 2, 2000.

The Discharger is required to conduct monitoring of the permitted discharges in order to evaluate compliance with permit conditions. Monitoring requirements are given in the proposed monitoring and reporting program (Attachment E). This provision requires compliance with the monitoring and reporting program, and is based on 40 CFR 122.44(i), 122.62, 122.63 and 124.5. The SMP is a standard requirement in almost all NPDES permits (including the proposed Order) issued by the Regional Board. In addition to containing definitions of terms, it specifies general sampling/analytical protocols and the requirements of reporting of spills, violations, and routine monitoring data in accordance with NPDES regulations, the California Water Code, and Regional Board's policies. The monitoring and reporting program also contains sampling program specific for the Discharger's wastewater treatment plant. It defines the sampling stations and frequency, pollutants to be monitored, and additional reporting requirements. Pollutants to be monitored include all pollutants for which effluent limitations are specified. Further, in accordance with Section 1.3 of the SIP, periodic

monitoring is required for all priority pollutants defined by the CTR, for which criteria apply and for which no effluent limitations have been established, to evaluate reasonable potential to cause or contribute to an excursion above a water quality standard.

C. Whole Effluent Toxicity Testing Requirements

Whole effluent toxicity (WET) protects the receiving water quality from the aggregate toxic effect of a mixture of pollutants in the effluent. An acute toxicity test is conducted over a short time period and measures mortality. A chronic toxicity test is conducted over a longer period of time and may measure mortality, reproduction, and growth.

This requirement establishes conditions and protocol by which compliance with the Basin Plan narrative water quality objective for toxicity will be demonstrated and in accordance with Section 4.0 of the SIP. Conditions include required monitoring and evaluation of the effluent for acute and chronic toxicity and numerical values for chronic toxicity evaluation to be used as 'triggers' for initiating accelerated monitoring and toxicity reduction evaluation(s).

The Whole Effluent Toxicity (WET) Testing Requirements contained in the Attachment E, Monitoring and Reporting Program, Section V were developed based on the Draft National Whole Effluent Toxicity Implementation Guidance Under the NPDES Program developed by USEPA (Docket ID. No. OW-2004-0037). This is the most current guidance available to the Regional Board. This Order includes a reopener to allow the requirements of this section to be revised pending the issuance of final guidance or policies developed by either the USEPA or State Water Board.

D. Receiving Water Monitoring

1. Surface Water

Receiving water monitoring is required to determine compliance with receiving water limitations and to characterize the water quality of the receiving water. Requirements are based on the Basin Plan.

2. Groundwater - Not Applicable

E. Other Monitoring Requirements

Biosolids/Sludge Monitoring

The Discharger shall maintain a permanent log of all solids hauled away from the treatment facility for use/disposal elsewhere and shall provide a summary of the volume, type (screenings, grit, raw sludge, digested sludge), use (agricultural, composting, etc.), and the destination in accordance with the Monitoring and Reporting Program of this Board Order. The sludge that is stockpiled at the treatment facility shall be sampled and analyzed for those constituents listed in the sludge monitoring section of the Monitoring and Reporting Program of this Board Order and as required by Title 40, Code of Federal Regulations, Part 503. The results of the analyses should be submitted to the Regional Board as part of the Monitoring and Reporting Program.

VII. RATIONALE FOR PROVISIONS

A. Standard Provisions

1. Federal Standard Provisions

Federal Standard Provisions, which in accordance with 40 CFR sections 122.41 and 122.42, apply to all NPDES discharges and must be included in every NPDES permit, are provided in Attachment D to the Order.

2. Regional Board Provisions

Regional Board Standard Provisions are based on the Clean Water Act, U.S. EPA regulations, and the California Water Code.

B. Special Provisions

1. Reopener Provisions

This provision is based on 40 CFR Part 123. The Regional Board may reopen the permit to modify permit conditions and requirements. Causes for modifications include the promulgation of new regulations, modification in sludge use or disposal practices, or adoption of new regulations by the State Board or Regional Board, including revisions to the Basin Plan.

2. Special Studies and Additional Monitoring Requirements

- a. Toxicity Identification Evaluations or Toxicity Reduction Evaluations. This provision is based on the SIP, Section 4, Toxicity Control Provisions.
- b. **Translator Study.** This provision is based on the SIP that allows the use of a translator for metals and selenium different than the U.S. EPA conversion factor, provided the Discharger requests this action and completes a translator study within two years from the date of the issuance of this permit as stated in the SIP.
- c. **Pollutant Minimization Study.** This provision is based on the SIP, Section 2.1, Compliance Schedules.
- d. **Total Dissolved Solids (TDS) Study.** The purpose of this section is to provide more detailed information on the Regional Board's development of salinity standards pursuant to Section 303 and through the NPDES permitting authority in the regulation of municipal and industrial sources. (See Section 402 of the Federal Water Pollution Control Act.)

As part of the Regional Board's development of salinity standards, the Regional Board is requiring a study to determine what is a reasonable increase in salinity for municipal discharges to surface waters and its impact on the beneficial uses of waters of the United States.

As part of the 1996 Review of the Water Quality Standards for Salinity of the Colorado River System dated June 1996, the study proposed that an incremental increase in salinity shall be 400 mg/L or less, which is considered to be a reasonable incremental increase above the flow weighted average salinity of the source water supply.

As part of this permit, the discharger is required to perform a study to evaluate whether a 400 mg/L incremental increase in salinity above the source water is practical and if not, what incremental increase is practical for their discharge. This report shall be submitted to the Regional Board's Executive Officer prior to the filing date for reapplication.

The following items describe the purpose and description of the minimum requirements for the report.

- 1) The permitting authority may permit a discharge in excess of the 400 mg/L incremental increase at the time of issuance or reissuance of a NPDES discharge permit, upon satisfactory demonstration by the permittee that it is not practicable to attain the 400 mg/L limit.
- 2) Demonstration by the applicant must include information on the following factors relating to the potential discharge:
 - (a) Description of the municipal entity and facilities.
 - (b) Description of the quantity and salinity of domestic water sources contributing to discharge.
 - (c) Description of significant salt sources of the municipal wastewater collection system, and identification of entities responsible for each source, if available.
 - (d) Description of water rights, including diversions and consumptive use quantities.
 - (e) Description of the wastewater discharge, covering location, receiving waters, quantity, salt load, and salinity.
 - (f) Alternative plans for minimizing salt contribution from the municipal discharge. Alternative plans should include:
 - Description of system salt sources and alternative means of control; and
 - Cost of alternative plans in dollars per ton, of salt removed from discharge

- (g) Such other information pertinent to demonstration of non-practicability as the permitting authority may deem necessary.
- 3) In determining what permit conditions shall be required, the permit issuing authority shall consider the following criteria including, but not limited to:
 - (a) The practicability of achieving the 400 mg/L incremental increase.
 - (b) Where the 400 mg/L incremental increase is not determined to be practicable, the discharger shall provide the following:
 - The impact of the proposed salt input of each alternative on the beneficial uses of the surface water in terms of tons per year and concentration;
 - Costs per ton of salt removed from discharge of each alternative plan;
 - Capability of minimizing the salt discharge;
 - A proposed value for the practical incremental increase; and
 - A justification for the proposed practical incremental increased value.
- 3. Best Management Practices and Pollution Prevention (Not Applicable)

4. Compliance Schedules

a. This Order establishes final effluent limitations for selenium and thallium that are new limits for the facility. This Order also contains interim effluent limitations and a compliance schedule that provides the Discharge time to bring their facility into compliance with the newly established final limits. In accordance with Section 2.1 of the SIP, interim limits and compliance schedules can only be provided by the Board after the Discharger has submitted a report that demonstrates and justifies that it is infeasible for the Discharger to achieve immediate compliance with newly established final effluent limitations. Infeasible means not capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social and technological factors.

The provision for compliance schedule is based on Section 2.1 (Compliance Schedules) of the SIP. The proposed permit allows the Discharger up to 4 years from the date of issue of the proposed permit to be in compliance with the final effluent limitations for selenium and thallium. Based on Regional Board's BPJ, 4 years is sufficient for the Discharger to achieve the final effluent limitations for the pollutants. The Discharger is required to develop a compliance and a pollution minimization plan to ensure that the Discharger achieves compliance with the final limitations within a time specified in this Order. Quarterly reporting is required to inform the Regional Board about the progress

made by the Discharger to achieve compliance with the final limitations within the specified time. During the interim period, the Discharger is required to meet the interim limitations derived from facility performance data.

5. Construction, Operation, and Maintenance Specifications

These provisions are based on the requirements of 40 CFR 122.41(e) and the previous Order.

6. Special Provisions for Municipal Facilities (POTWs Only)

- a. Sludge Disposal Requirements. Requirements are based on the previous Order and 40 CFR Part 503.
- b. **Pretreatment Program Requirements.** Requirements are based on the previous Order and 40 CFR Part 403.

7. Other Special Provisions

Provisions VI.C.7.a through VI.C.7.g, are included to ensure the compliance with requirements established in the Order, are based on the previous Order, the Clean Water Act, U.S. EPA regulations, California Water Code, and Regional Board plans and policies.

VIII. PUBLIC PARTICIPATION

The California Regional Water Quality Control Board, Colorado River Basin Region (Regional Water Board) is considering the issuance of waste discharge requirements (WDRs) that will serve as a National Pollutant Discharge Elimination System (NPDES) permit for City of Imperial District Wastewater Treatment Plant. As a step in the WDR adoption process, the Regional Water Board staff has developed tentative WDRs. The Regional Water Board encourages public participation in the WDR adoption process.

A. Notification of Interested Parties

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations. Notification was published in the following newspapers: Desert Sun, Imperial Valley Press, and Salton Seafarer. In addition, copies of proposed permit were sent to interested agencies and persons.

B. Written Comments

The staff determinations are tentative. Interested persons are invited to submit written comments concerning these tentative WDRs. Comments should be submitted either in person or by mail to the Executive Office at the Regional Water Board at the address above on the cover page of this Order.

To be fully responded to by staff and considered by the Regional Water Board, written comments should be received at the Regional Water Board offices by 5:00 p.m. on May 25, 2005.

C. Public Hearing

The Regional Water Board will hold a public hearing on the tentative WDRs during its regular Board meeting on the following date and time and at the following location:

Date:

June 29, 2005

Time:

10:00 a.m.

Location:

City Council Chambers

City of La Quinta 780495 Calle Tampico La Quinta, CA 92253

Interested persons are invited to attend. At the public hearing, the Regional Water Board will hear testimony, if any, pertinent to the discharge, WDRs, and permit. Oral testimony will be heard; however, for accuracy of the record, important testimony should be in writing.

Please be aware that dates and venues may change. Our web address is http://www.waterboards.ca.gov/coloradoriver/ where you can access the current agenda for changes in dates and locations.

D. Waste Discharge Requirements Petitions

Any aggrieved person may petition the State Water Resources Control Board to review the decision of the Regional Water Board regarding the final WDRs. The petition must be submitted within 30 days of the Regional Water Board's action to the following address:

State Water Resources Control Board Office of Chief Counsel P.O. Box 100, 1001 I Street Sacramento, CA 95812-0100

E. Information and Copying

The Report of Waste Discharge (RWD), related documents, tentative effluent limitations and special provisions, comments received, and other information are on file and may be inspected at the address above at any time between 8:30 a.m. and 4:45 p.m., Monday through Friday. Copying of documents may be arranged through the Regional Water Board by calling (760) 346-7491.

F. Register of Interested Persons

Any person interested in being placed on the mailing list for information regarding the WDRs and NPDES permit should contact the Regional Water Board, reference this facility, and provide a name, address, and phone number.

G. Additional Information

Requests for additional information or questions regarding this order should be directed to Jon Rokke at (760) 776-8959.

From:

Rosalyn Fleming-Larsen

To:

Chakraborty, Suhas; Garcia, Kristie

Date: Subject: 7/8/05 11:49AM Re: Brawley Beef

Thanks for

- 1. Pulling file
- 2. Faxing a copy of old annual report
- 3. Verifying that he has new annual report
- 4. Giving him the website for a copy of the permit

You've taken care of the follow-up I was planning to perform.

>>> Kristie Garcia 07/08/05 10:12AM >>>

Dick Farmer, of Brawley Beef (File: 713l017228), phoned this morning around 10am. He said he has been trying to contact you or your supervisor for over a week. He was attempting to fill out the facility's annual report for his first time and needs assistance.

He sounded very frustrated. Since you are not in the office, I offered to pull his file and fax an old report to him that he could review. He said that would be a big help. I faxed him Brawley Beef's most recent annual report.

His contact information is below in case you need it:

(760) 351-2747 phone

(760) 351-2713 fax

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